

*MOJAVE DESERT*  
*AIR QUALITY MANAGEMENT DISTRICT*

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Federal Operating Permit Number: 104801880

For: RELIANT ENERGY COOLWATER, LLC

Facility: COOLWATER GENERATING STATION

Issued Pursuant to MDAQMD Regulation XII  
Effective Date: June 28, 1999

This Federal Operating Permit Expires  
on: June 28, 2004

Issued By: Charles L. Fryxell  
Air Pollution Control Officer

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## PART I INTRODUCTORY INFORMATION

### A. FACILITY IDENTIFYING INFORMATION:

Owner/Company Name: RELIANT ENERGY COOLWATER, LLC

Owner Mailing Address: Reliant Energy Coolwater, LLC  
12301 Kurland  
Houston, Texas 77034

Facility Name: COOLWATER GENERATING STATION

Facility Location: 37000 Santa Fe Street, Daggett, CA 92327.  
Facility Mailing Address: P.O. Box 337, Daggett, CA 92327.

MDAQMD Federal Operating Permit Number: 104801880

MDAQMD Company Number: 1048

MDAQMD Facility Number: 01880

Responsible Official: Mr. David G. Tees  
Title: Executive Vice President of Power Operations  
Phone Number: (713)207-2023

### Facility "Site" Contacts:

Mr. Dick Dusenbury, Manager, Reliant Energy Coolwater, LLC (760-254-5241)  
Mr. Gene Gordon, Environmental Specialist, SCE O&M Services (760-254-5205)

### Facility "Off Site" Contacts:

Mr. Ben Carmine, Reliant Energy, Manager, Air Resources Division (713-945-8191)  
Mr. Brian McQuown, Reliant Energy, for Title V permit issues (713-945-7211)  
@ Mail Stop A-295, 12301 Kurland, Houston, Texas 77034

Nature of Business: Electric Power Generation  
SIC Code: 4911 -- Electric Power Generation  
ORIS Code: 0329 -- Phase II Acid Rain Source  
Facility Location: UTM (Km) 514E / 3858N

B. DESCRIPTION OF FACILITY:

Combined Federal Operating Permit and Acid Rain Permit Permit (FOP number: 104801880) for Coolwater Generating Station, located at 37000 Santa Fe Street, Daggett, CA 92327. Coolwater Generating Station - is an electric power generating facility located at Daggett, California. The facility has a net power production capacity of approximately 431 MW(e) (net) from four operating power generating Units 31, 32, 41 and 42; and two boilers, unit 1 and unit 2:

C. EXPIRATION DATE: Federal Operating Permit Effective:  
June 28, 1999 through June 28, 2004

D. EQUIPMENT DESCRIPTION:

1. Four Combined Cycle Electric Generating Units: Each Combined Cycle Unit Has A Nominal Power Rating Of 73 MW(e) and 1220 MM BTU/hr and Consists Of The Following Equipment:

MDAQMD Permit Number B001079, unit number 31

MDAQMD Permit Number B001080, unit number 32

MDAQMD Permit Number B001081, unit number 41

MDAQMD Permit Number B001082, unit number 42

One Westinghouse Electric Corp., Model 501B Combustion Turbine, Dual Fuel (Natural Gas or Distillate) fired, (diesel fuel is used for ignition when firing distillate fuel). The Combustion Turbine is fired by sixteen (16) dual fuel burners and has a nominal rating of 73 MW(e) net (summer base load rating, actual Combustion Turbine output will increase as ambient temperature decreases or if Combustion Turbine is fired in peak mode).

One Westinghouse Electric Corp., Heat Recovery Steam Generator (HRSG) with forced circulation, supplementary fired with Natural Gas or Distillate fuel. The HRSG supplemental firing consists of twenty (20) dual fuel duct-burners and may use propane as an ignition source.

The combined fuel usage for the Combustion Turbine and fired HRSG is a nominal 1220 MMBtu/hr with the Combustion Turbine at its nominal load of 73 MW(e) net, but will vary as the unit load varies with ambient conditions.

2. Continuous Emission Monitoring System (CEMS) Description:

Two types of existing CEMS are used at Coolwater Generating Station. The Boilers (Units 1 & 2) have KVB systems installed (one for each boiler, two total), while the Combustion Turbines (units 31, 32, 41, & 42) have Horiba systems (one for each turbine, four total). Note: Auxiliary Boiler not served by CEMS.

KVB Systems:

The systems are designed to automatically and continuously measure NO<sub>x</sub> and O<sub>2</sub> concentrations

and calculate and report averages of these as well as emission rate and emission concentration factor results. The CEMS then calculates the summary results required by 40 CFR 75.

The sample is extracted from the stack through one or more stainless steel sample probes and transported through a heated Teflon sample line to the heated Sample Interface Enclosure. The sample then goes via heat traced Teflon tubing to the monitor enclosure with the Sample Conditioning System (sample pumps, condensate bath, filters, flow regulators, pressure and vacuum switches, calibration equipment, NO<sub>x</sub> and O<sub>2</sub> process analyzers) via heated sample tubing. This produces a cool, clean, dry sample for analysis. After analysis, the sample is vented to the atmosphere.

A calibration sequence is automatically initiated every 24 hours and a calibration correction is computed for each analyzer. The calibration uses both a high level span gas and a zero level gas. The gases are injected at the Sample Interface Enclosure to simulate the path of the flue gas.

#### Horiba Systems:

The CEM systems are manufactured by Horiba Instruments Inc. Each system consists of a ENDA 1220 package equipped with CMA 321 analyzers which utilize the principles of cross-flow infrared technology to measure NO<sub>x</sub> and magnetopneumatics to measure O<sub>2</sub>.

The sample probe has a heated primary filter to remove particulate and prevent moisture condensation. The sample passes through a heated sample line to the Analyzer System. The Analyzer System contains a Sample Handling System (SHS) and an Analyzer Unit. The sample passes through the SHS consisting of a drain separator, a mist catcher, a particulate filter, a flow selector valve, a pump and a dehumidifier, before it goes to the Analyzer Unit with NO<sub>x</sub> and O<sub>2</sub> analyzers. Span gas cylinders are provided for O<sub>2</sub> and high and low NO<sub>x</sub> ranges. After measurement the sample gas is vented to the atmosphere.

#### ESC Data Acquisition and Handling System:

The above CEMS are served by a data acquisition and Handling System (DAHS) that records pollutant, diluent, and other system measurements and status indicators, calculates data averages and other values, performs missing data substitution for 40 CFR 75, and generates reports of current and historical data. The DAHS consists of an ESC data logger and ESC/CEM central computer and software system.

The data logger controls CEMS valve settings to establish the system modes of operation, such as routine monitoring, calibration, or purge. The data logger also receives system status and error signals, controls the timing of automatic calibrations and calibration error checks, and stores backup data.

The ESC/CEM central computer and software system is a UNIX-based, multi-tasking, multi-user data acquisition and reporting system. The system consists of a central polling computer (which collects and reports data from the data logger), multiple operator stations, and ESC/CEM software.

3. MDAQMD Permit Number B001077, Unit No. 1, a 64 MW(e) net, steam generating unit consisting of the following equipment and ratings:

Combustion Engineering Boiler, Model 19113, Type R, natural gas and/or oil fired. Natural gas firing is by sixteen (16) Combustion Engineering Burners, Model D-435-240, rated at 796.32 million Btu/hr; Oil firing is by eight (8) Peabody burners rated at 682.52 million Btu/hr.

Proposed Control equipment includes ducting from the stack to the Forced Draft fan blowing air into the firebox of the boiler. All necessary dampers, expansion joints and seals are included. For Control equipment compliance conditions and requirements see Section B, SPECIFIC COMPLIANCE CONDITIONS of Part V Compliance Conditions contained in this Title V Permit document.

4. MDAQMD Permit Number B001078, Unit No. 2, a 75 MW(e) net, steam generating unit consisting of the following equipment and ratings:

Combustion Engineering Boiler, Model 19769, Type R, natural gas and/or oil fired. Natural gas firing is by twenty-four (24) Combustion Engineering Burners, Model D-465-291, rated at 856.8 million Btu/hr; Oil firing is by twelve (12) Peabody oil burners (Job. No. 3461) rated at 682.5 million Btu/hr.

Proposed Control equipment includes ducting from the stack to the Forced Draft fan blowing air into the firebox of the boiler. All necessary dampers, expansion joints and seals are included. For Control equipment compliance conditions and requirements see Section B, SPECIFIC COMPLIANCE CONDITIONS of Part V Compliance Conditions contained in this Title V Permit document.

5. MDAQMD Permit Number B001892, 49 MM Btu/hr Auxiliary Boiler at Coolwater Generating Station which consists of the following basic equipment:

- a. Nebraska Boilers Company: Type NS-C-53 Economizer equipped water tube unit, Natural gas or No. 2 diesel fuel fired, whose input firing rates are 48.75 MM Btu/hr and 46.68 MM Btu/hr, respectively. Boiler surface area is 3664 square feet.
- b. 40 hp Aladdin Combustion air blower, 8780 scfm @ 10 inches water column pressure.
- c. Fuel is fired through one Coen Fyre-Compak "low excess air" burner.
- d. Two (2) 50 hp, 85 gallon per minute Ingersoll-Rand feed water pumps.
- e. Two (2) 1/2 hp, 7 gallons per hour Pulsafeeder chemical feed pumps (both spared), for feed water conditioner additives (e.g. pH and dissolved oxygen).
- f. No. 2 diesel fuel pump, 1 hp, 400 gallons per hour Rope fuel pump.
- g. Motor driven soot blowing valves, motor driven, three (3) at 1/3 hp each.

6. MDAQMD Permit Number E004063, EMERGENCY FIREPUMP:  
Consisting of a Cummins Diesel Fueled Internal Combustion Engine rated at 255 Brake Horse

Power. Model NT-855-F1 and serial number 10442130. The engine has 6 cylinders and operates at 1750 rpm.

7. MDAQMD Permit Number T001100, STORAGE TANK Number 1:  
 A Fixed Roof Storage Tank with dimensions of 100 feet diameter and 43 feet high. The total volume is 2.52 million gallons.
  
8. MDAQMD Permit Number S000736, PAINT SPRAY BOOTH:  
 Paint Arrester Floor Type, Model 30-4206. Dimensions, 6 feet wide, 7 feet high, 4 feet deep. With Twelve, 20 inch by 20 inch Exhaust Filters and 1.5 hp Exhaust Fan.
  
9. MDAQMD Permit Number N001424, GASOLINE DISPENSING FACILITY (NON-RETAIL) consisting of:
  - a. Tanks - Number of Tanks: 2
 

	Tank Number:	1	2
1.	Material Stored:	Unleaded	Diesel
2.	Volume Gallons:	1,000	1,000
3.	Above(A) or Underground(U):	U	A
  
  - b. Dispensing Equipment (Total Dispensers): 2
    1. Gasoline Dispensing Nozzles (Number): 1
    2. Diesel Dispensing Nozzles (Number): 1
    3. Phase II Vapor Recovery System (Type): Balance [gasoline only]

## PART II

### APPLICABLE REQUIREMENTS AND EMISSIONS LIMITATIONS

A. CONDITIONS APPLICABLE TO THE ENTIRE COOLWATER GENERATING STATION AND EQUIPMENT:

1. A permit is required to operate this facility.  
[Rule 203 - *Permit to Operate*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
2. The equipment at this facility shall not be operated contrary to the conditions specified in the District permit to operate.  
[Rule 203 - *Permit to Operate*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
3. The Air Pollution Control Officer may impose written conditions on any permit.  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
4. Commencing work or operation under a permit shall be deemed acceptance of all the conditions so specified.  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
5. Posting of the permit to operate is required on or near the equipment or as otherwise approved by the APCO/District.  
[Rule 206 - *Posting of Permit to Operate*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
6. Owner/Operator shall not willfully deface, alter, forge or falsify any permit issued under District rules.  
[Rule 207 - *Altering or Falsifying of Permit*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) and 52.220(c)(31)(vi)(C) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
7. Permits are not transferable.  
[Rule 209 - *Transfer and Voiding of Permit*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
8. The equipment at this facility shall not require a District permit or be listed on the Title V permit if such equipment is listed in Rule 219 and meets the applicable emission limitations contained in Rule 219 (D).  
[SIP Pending: Rule 219 - *Equipment Not Requiring a Written Permit* as Amended 12/21/94;



Prior version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237]

9. The Owner/Operator of this facility shall obtain a Federal Operating Permit for operation of this facility.  
[Rule 221 - *Federal Operating Permit Requirement*; Version in SIP = Current, 40 CFR 52.220(c)(216)(i)(A)(2) - 02/05/96 61 FR 4217]
10. Owner/Operator shall pay all applicable MDAQMD permit fees.  
[Rule 301 - *Permit Fees*; Applicable Version = 10/23/94, Applicable via Title V Program interim approval 02/05/96 61 FR 4217]
11. Owner/Operator shall pay all applicable MDAQMD Title V permit fees.  
[Rule 312 - *Fees for Federal Operating Permits*; Applicable Version = 10/23/94, Applicable via Title V Program interim approval 02/05/96 61 FR 4217]
12. Stack and point source visible emissions from this facility, of any air contaminant (including smoke) into the atmosphere, shall not equal or exceed Ringelmann No. 1 for a period or periods aggregating more than three minutes in any one hour:
  - a. While any unit [including turbines] is fired on Public Utilities Commission grade natural gas, Periodic Monitoring is not required to validate compliance with the Rule 401 Visible Emissions limit. However, the Owner/Operator shall comply with the recordkeeping requirements stipulated elsewhere in this permit regarding the logging of fuel type, amount and suppliers certification information.
  - b. While any unit [excluding turbines] is fired on diesel / distillate fuel Periodic Monitoring, in addition to required recordkeeping, is required to validate compliance with Rule 401 Visible Emissions limit. A visible emissions inspection is required after every one (1) million gallons of fuel is combusted. Fuel consumption is to be counted cumulatively over a 5 year period. If a visible emissions inspection documents opacity, a Method 9 "Visible Emissions Evaluation" shall be completed within 3 working days, or during the next scheduled operating period if the unit ceases firing on diesel / distillate within the 3 working day time frame.
  - c. While any turbine is fired on diesel / distillate fuel Periodic Monitoring, in addition to required recordkeeping, is required to validate compliance with the Rule 401 Visible Emissions limit. A visible emissions inspection is required after every 400 cumulative hours of operation on diesel / distillate fuel. If a visible emissions inspection documents opacity, a Method 9 "Visible Emissions Evaluation" shall be completed within 3 working days, or during the next scheduled operating period if the unit ceases firing on diesel / distillate within the 3 working day time frame. This requirement shall also apply to diesel/distillate fuel firing during training/testing periods.

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for *Periodic Monitoring Requirements*, see: Part II, section A, condition 12; Part III, section C, condition 23; Part V, section C, condition 6; Part V, section D, condition 1, Part V, section E, condition 4)  
[Rule 401 - *Visible Emissions*; Version in SIP = CARB Ex. Order G-73, 40 CFR

52.220(c)(39)(ii)(B) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR  
52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

13. Emissions of fugitive dust from any transport, handling, construction or storage activity at this facility shall not be visible in the atmosphere beyond the property line of the facility.  
[Rule 403 - *Fugitive Dust*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]
14. Owner/Operator shall comply with the applicable requirements of Rule 403.2 unless an “Alternative PM<sub>10</sub> Control Plan” (ACP) pursuant to Rule 403.2(G) has been approved.  
**[SIP Pending:** Rule 403.2 - *Fugitive Dust Control for the Mojave Desert Planning Area* as amended 07/31/95 and submitted 10/13/95]
15. Owner/Operator shall not discharge into the atmosphere from this facility, particulate matter except liquid sulfur compounds, in excess of the concentration at standard conditions, shown in Rule 404, Table 404 (a).
  - (a) Where the volume discharged is between figures listed in the table, the exact concentration permitted to be discharged shall be determined by linear interpolation.
  - (b) This condition shall not apply to emissions resulting from the combustion of diesel/distillate or PUC quality natural gas fuels in steam generators or gas turbines.
  - (c) For the purposes of this condition, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.  
[Rule 404 - *Particulate Matter Concentration*; Version in SIP = Current, 40 CFR 52.220(c)(42)(xiii)(A) - 12/21/78 43 FR 52489]
16. Owner/Operator shall not discharge into the atmosphere from this facility, solid particulate matter including lead and lead compounds in excess of the rate shown in Rule 405, Table 405(a).
  - (a) Where the process weight per hour is between figures listed in the table, the exact weight of permitted discharge shall be determined by linear interpolation.
  - (b) For the purposes of this condition emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.  
[Rule 405 - *Solid Particulate Matter, Weight*; Version in SIP = Current, 40 CFR 52.220(c)(42)(xiii)(A) - 12/21/78 43 FR 52489]
17. Owner/Operator shall not discharge into the atmosphere from this facility, from any single source of emissions whatsoever, Sulfur compounds, which would exist as a liquid or gas at standard conditions, calculated as sulfur dioxide (SO<sub>2</sub>) greater than or equal to 500 ppm by volume.  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for *Periodic Monitoring Requirements*, see: Part II, section A, condition 22; Part III, section A, condition 4; Part III, section B, conditions 1 and 4; Part III, section C, conditions 11 and 22; Part V, section C, condition 4; Part V, section D, condition 3; Part V, section E, condition 1; Part V, section I, conditions 2 and 3)

[Rule 406 - *Specific Contaminants*; Version in SIP = 07/25/77, 40 CFR 52.220(c)(42)(xiii)(A) - 12/21/78 43 FR 52489, Subpart (a) only; Current Rule Version = 02/20/79]

18. Owner/Operator shall not discharge into the atmosphere from this facility, carbon monoxide (CO) exceeding 2000 ppm measured on a dry basis, averaged over a minimum of 15 consecutive minutes.

(a) The provisions of this condition shall not apply to emissions from internal combustion engines.

[Rule 407 - *Liquid and Gaseous Air Contaminants*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]

19. Owner/Operator shall not build, erect, install or use any equipment at this facility, the use of which, without resulting in a reduction in the total release of air contaminants to the atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the Health and Safety Code or of District Rules.

(a) This condition shall not apply to cases in which the only violation involved is of Section 41700 of the Health and Safety Code, or of District Rule 402.

[Rule 408 - *Circumvention*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]

20. Owner/Operator shall not discharge into the atmosphere from this facility from the burning of fuel, combustion contaminants exceeding 0.23 gram per cubic meter (0.1 grain per cubic foot) of gas calculated to 12 percent of carbon dioxide (CO<sub>2</sub>) at standard conditions averaged over a minimum of 25 consecutive minutes.

[Rule 409 - *Combustion Contaminants*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]

21. APCO in his/her discretion, may refrain from enforcement action against an Owner/Operator of any equipment which has violated a technology-based emission limitation, including but not limited to conditions contained in any permit issued by the District establishing such emission limitation, provided that a Breakdown has occurred and:

- (a) Any breakdown which results in emissions exceeding a technology-based emission limitation is reported to the District within one hour of such breakdown or within one hour of the time a person knew or reasonably should have known of the occurrence of such breakdown; and
- (b) An estimate of the repair time is provided to the District as soon as possible after the report of the breakdown; and
- (c) All reasonable steps are immediately taken to minimize the levels of emissions and to correct the condition leading to the excess emissions.
- (d) The equipment is operated only until the end of a cycle or twenty-four (24) hours, whichever is sooner, at which time it shall be shut down for repairs unless a petition for an emergency variance has been filed with the clerk of the Hearing Board in accordance with Regulation V.

- (e) If the breakdown occurs outside normal District working hours the intent to file an emergency variance shall be transmitted to the District in a form and manner prescribed by the Air Pollution Control Officer.

**[SIP Pending: Rule 430 - *Breakdown Provisions* as amended 12/21/94 and submitted 02/24/95]**

22. Owner/Operator is limited to combusting only PUC quality natural gas fuel at this facility containing sulfur compounds not exceeding 800 ppm calculated as hydrogen sulfide at standard conditions, or any diesel/distillate fuel having a sulfur content not exceeding 0.5 percent by weight [0.20 % for auxiliary boiler]. The sulfur content of the diesel/distillate fuel shall be determined by use of ASTM method D 2622-82, or (ASTM method D 2880-71, or equivalent).

*[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements] (for Periodic Monitoring Requirements, see: Part II, section A, condition 22; Part III, section A, condition 4; Part III, section B, conditions 1 and 4; Part III, section C, conditions 11 and 22; Part V, section C, condition 4; Part V, section D, condition 3; Part V, section E, condition 1; Part V, section I, conditions 2 and 3)*

*[Rule 431 - Sulfur Content of Fuels; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 - 43 FR 40011; Current Rule Version = 07/25/77]*

23. Owner/Operator of this facility shall not discharge organic materials into the atmosphere from equipment in which organic solvents or materials containing organic solvents are used, unless such emissions have been reduced by at least 85% or to the following:

- (a) Organic materials that come into contact with flame or are baked, heat cured or heat polymerized, are limited to 1.4 kilograms (3.1 pounds) per hour not to exceed 6.5 kilograms (14.3 pounds) per day.
- (b) Organic materials emitted into the atmosphere from the use of photochemically reactive solvents are limited to 3.6 kilograms (7.9 pounds) per hour, not to exceed 18 kilograms (39.6 pounds) per day, except as provided in Rule 442, subsection (a)(1). All organic materials emitted for a drying period of 12 hours following their application shall be included in this limit.
- (c) Organic materials emitted into the atmosphere from the use of non-photochemically reactive solvents are limited to 36.8 kilograms (81 pounds) per hour not to exceed 272 kilograms (600 pounds) per day. All organic materials emitted for a drying period of 12 hours following their application shall be included in this limit.
- (d) The provisions of this condition shall not apply to the manufacture of organic solvents, or the transport or storage of organic solvents, or the transport or storage of materials containing organic solvents.
- (e) The provisions of this condition shall not apply to the use of equipment for which other requirements are specified by Rules 461, 462, 463, and 464 or which are exempt from air pollution control requirements by said rules.

*[Rule 442 - Usage of Solvents; Version in SIP = Current, 40 CFR 52.220(c)(51)(xii)(B) - 06/09/82 47 FR 25013]*

24. Owner/Operator's use of *Architectural Coatings* at this facility shall comply with the requirements of Rule 1113, including the VOC limits specified in Rule 1113, part C, Table of Standards, as listed

below:

<u>Table of Standards</u>	
<u>COATING:</u>	<u>VOC (g/l)</u>
Below Ground Wood Preservatives	600
Bond Breakers	350
Concrete Curing Compounds	350
Dry-Fog Coatings	400
Fire Retardant Coatings	
Clear	650
Pigmented	350
Flat Coatings	250
General Primers, Sealers and Undercoaters	350
Graphic Arts (Sign) Coatings	500
Industrial Maintenance Coatings	
Anti-Graffiti Coatings	600
General Coatings	420
High Temperature Coatings	550
Lacquer	680
Magnesite Cement Coatings	600
Mastic Texture Coatings	300
Metallic-Pigmented Coatings	500
Multi-Color Coatings	580
Opaque Stains	350
Opaque Wood Preservatives	350
Pretreatment (Wash) Primer	780
Quick Dry Enamels	400
Quick Dry Primers, Sealers and Undercoaters	450
Roof Coatings	300
Sanding Sealers	550
Semi-transparent Stains	350
Semi-transparent and Clear Wood Preservatives	350
Shellac	
Clear	730
Pigmented	550
Swimming Pool Coatings	650
Swimming Pool Repair and Maintenance Coatings	650
Traffic Paints	250
For Other Surfaces	250
Black Traffic Coatings	650
Varnish	350
Waterproof Sealers	400

[Rule 1113 - *Architectural Coatings*; Version in SIP = 02/20/79, 40 CFR 52.220(c)(51)(xii)(B)-06/09/82 47 FR 25013; Current Rule Version = 09/02/92]

25. Owner/Operator shall comply with all requirements of the District's Title V Program, MDAQMD Rules 1200 through 1210 (Regulation XII - *Federal Operating Permits*).  
[Applicable via Title V Program interim approval 02/05/96 61 FR 4217]

26. Maximum Heat Input Rating for the Following Turbines Shall Not Exceed 1220 MM Btu/hr as allowed on existing District Permits to Operate Listed as follows:

Unit # 31, MDAQMD Permit # B001079, one 73 MW Turbine, 1220 MM Btu/hr  
Unit # 32, MDAQMD Permit # B001080, one 73 MW Turbine, 1220 MM Btu/hr  
Unit # 41, MDAQMD Permit # B001081, one 73 MW Turbine, 1220 MM Btu/hr  
Unit # 42, MDAQMD Permit # B001082, one 73 MW Turbine, 1220 MM Btu/hr

Note: The combined fuel usage for the Combustion Turbine and supplemental (duct burner) fired HRSG is a nominal 1220 MM Btu/hr with the Combustion Turbine at its nominal load of 73 MW(e) net, but will vary as the unit load varies with ambient conditions.

[Rule 203 - *Permit to Operate*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

27. Maximum Heat Input Rating for the Following Boilers Shall Not Exceed the following listed maximum heat input ratings which are allowed on existing District Permits to Construct/Operate:

- (a) Unit # 1, MDAQMD Permit # B001077, one 64 MW (electric) net, Steam Boiler, 796.32 MM Btu/hr (gas fired) and, 682.53 MM Btu/hr (oil fired).  
(b) Unit # 2, MDAQMD Permit # B001078, one 75 MW (electric) net, Steam Boiler, 856.8 MM Btu/hr (gas fired) and, 682.5 MM Btu/hr (oil fired).

[Rule 203 - *Permit to Operate*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

B. CONDITIONS APPLICABLE TO THE FOLLOWING UTILITY POWER GENERATING TURBINE UNITS:

Unit # 31, MDAQMD Permit # B001079, one 73 MW Turbine  
Unit # 32, MDAQMD Permit # B001080, one 73 MW Turbine  
Unit # 41, MDAQMD Permit # B001081, one 73 MW Turbine  
Unit # 42, MDAQMD Permit # B001082, one 73 MW Turbine

1. Owner/Operator shall comply with the following NO<sub>x</sub> RACT Emissions Limits for Combined-cycle Turbines:
  - (a) All Combined-Cycle Turbine Units shall not emit NO<sub>x</sub> emissions in excess of the following concentrations:

<u>NO<sub>x</sub> Limit</u>
42 ppmv on PUC quality natural gas fuels
65 ppmv on diesel/distillate fuels

- (b) All ppmv emission limits for combined-cycle turbine unit is referenced at dry stack-gas conditions and 15.0 percent by volume stack-gas oxygen as an hourly average.
  - (c) Turbines and Duct Burners exhaust through Heat Recovery Steam Generators which exhaust through headers and exhaust stacks. These total emissions are measured by CEMS determining compliance with Rule 1158 emission limits.

[SIP Pending: Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]

2. Owner/Operator shall not operate the facility with facility-wide NO<sub>x</sub> emissions in excess of the following aggregated annual limits:

<u>Year</u>	<u>Aggregated Annual Cap (Tons/year)</u>
Ending December 31, 1999	1,421
Ending December 31, 2000	1,387
Ending December 31, 2001	1,353
Ending December 31, 2002	1,319
After December 31, 2002	1,319

[SIP Pending: Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]

3. Owner/Operator shall not emit from Combined Cycle Gas Turbines Particulate Matter that exceeds **both** of the following two limits:

- (a) 5 kilograms (11 pounds) per hour; and
  - (b) 7.6 milligrams per standard cubic meter (0.003 grains/standard cubic foot), referenced at standard, dry stack-gas conditions and 15.0 percent by volume stack-gas oxygen.

[SIP Pending: Rule 475 - *Electric Power Generating Equipment* as adopted 08/25/97 and submitted 03/10/98]

C. CONDITIONS APPLICABLE TO THE FOLLOWING UTILITY BOILERS:

Unit # 1, MDAQMD Permit # B001077, one 64 MW Boiler  
Unit # 2, MDAQMD Permit # B001078, one 75 MW Boiler

1. Owner/Operator shall limit the NO<sub>x</sub> emissions from boilers listed above to not exceed oxides of nitrogen in excess of the following NO<sub>x</sub> RACT Emissions Limits for Utility Boilers:

- | (a) | <u>Permit Unit Classification</u>  | <u>NO<sub>x</sub> Limit</u>  |
|-----|--|--|
|     | Cycling units<br>(ACF = 31 to 59%)   | 100 ppmv on PUC quality natural gas fuels<br>115 ppmv on diesel/distillate fuels |
| (b) | Should Annual Capacity Factor (ACF) = 60% and greater, then boilers listed above will be required to meet the NO <sub>x</sub> limit for Baseline units of: 70 ppmv on PUC quality natural gas fuels and 115 ppmv on diesel/distillate fuels. |  |
| (c) | All ppmv emission limits for utility boilers are referenced at dry stack-gas conditions and 3.0 percent by volume stack-gas oxygen as an hourly average.   |  |
| (d) | If the Annual Capacity Factor (ACF) of a permitted unit becomes greater than that prescribed for its permit unit classification, then such unit shall thereafter be classified as belonging to the next greater permit unit classification.  |  |

**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]

2. Owner/Operator shall not operate the facility with facility-wide NO<sub>x</sub> emissions in excess of the following aggregated annual limits:

<u>Year</u>	<u>Aggregated Annual Cap (Tons/year)</u>
Ending December 31, 1999	1,421
Ending December 31, 2000	1,387
Ending December 31, 2001	1,353
Ending December 31, 2002	1,319
After December 31, 2002	1,319

**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]

3. During periods of unexpected curtailment of PUC quality natural gas fuels for utility boilers which normally burn only natural gas fuel, Owner/Operator shall:

- (a) Comply with a NO<sub>x</sub> emission limit of 225 ppmv NO<sub>x</sub> when burning diesel/distillate fuel.
- (b) This exemption shall not exceed the period of natural gas curtailment.
- (c) This exemption shall apply when equipment is undergoing compliance testing. For the purpose of this exemption, the applicable compliance testing time period shall not exceed 48 hours per calendar year.

**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]

4. Owner/Operator shall not emit from Boilers, Particulate Matter that exceeds **both** of the following two limits:

- (a) 5 kilograms (11 pounds) per hour; and
- (b) 23 milligrams per standard cubic meter (0.01 gr/standard cubic foot), referenced at



standard, dry stack-gas conditions and 3.0 percent by volume stack-gas oxygen.  
**[SIP Pending:** Rule 475 - *Electric Power Generating Equipment* as adopted 08/25/97 and submitted 03/10/98]

D. CONDITIONS APPLICABLE TO 49 MM BTU/HR AUXILIARY BOILER, MDAQMD PERMIT # B001892:

1. This boiler is limited to the use of 1,154,000 gallons of No. 2 diesel fuel per year.  
 [ 40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements* ] ( *for Periodic Monitoring Requirements, see Part III, section B, conditions 1 through 7* )  
 [MDAQMD Permit # B001892, Condition # 1: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
2. Sulfur content of the No. 2 diesel fuel must not exceed 0.20 percent by weight.  
 [40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] ( *for Periodic Monitoring Requirements, see Part III, section B, condition 1, for recordkeeping / compliance requirements* )  
 [MDAQMD Permit # B001892, Condition # 2: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
3. Owner / Operator shall not operate the Auxiliary Boiler without first obtaining a District Approved Source Test Protocol to test the Auxiliary Boiler for compliance with the following applicable emission limits. Any source testing must be witnessed and approved by the District. Compliance with NO<sub>x</sub> emission limits shall be based upon hourly averages. Particulate matter concentrations and emission rates shall be based on the average of three (3) one-hour runs. Pollutant emission rate and concentrations for Auxiliary Boiler at full load shall be limited to the following (see Part III (B)(1 through 7) for testing requirements):

	<u>Natural Gas</u>	<u>No. 2 Diesel</u>
PM	0.003 gr/dscf @ 3 % excess O <sub>2</sub>	0.011 gr/dscf @ 3 % excess O <sub>2</sub>
SO <sub>2</sub>	0.3 ppmv @ 3 % excess O <sub>2</sub>	109 ppmv @ 3 % excess O <sub>2</sub>
CO	41 ppmv @ 3 % excess O <sub>2</sub>	44 ppmv @ 3 % excess O <sub>2</sub>
VOC	0.13 lb/hr	0.07 lb/hr
NO <sub>x</sub>	6.4 lb/hr	6.6 lb/hr

[MDAQMD Permit # B001892, Condition # 3: Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule

Version = 07/25/77]

4. Owner/Operator shall not operate the facility with facility-wide NO<sub>x</sub> emissions in excess of the following aggregated annual limits:

<u>Year</u>	<u>Aggregated Annual Cap (Tons/year)</u>
Ending December 31, 1999	1,421
Ending December 31, 2000	1,387
Ending December 31, 2001	1,353
Ending December 31, 2002	1,319
After December 31, 2002	1,319

[SIP Pending: Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

- E. CONDITIONS APPLICABLE TO EMERGENCY FIRE PUMP, 255 BRAKE HORSE POWER INTERNAL COMBUSTION DIESEL ENGINE, MDAQMD PERMIT # E004063:

1. Owner/Operator shall insure this equipment complies with Part II, General Conditions A.1 through A.25.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

- F. CONDITIONS APPLICABLE TO PAINT SPRAY BOOTH, MDAQMD PERMIT NUMBER S000736:

1. Owner/Operator shall not discharge organic materials into the atmosphere from equipment in which organic solvents or materials containing organic solvents are used, unless such emissions have been reduced to the levels allowed in Rule 442. See statement of rule requirements in Part II, general condition A.23.

[Rule 442 - *Usage of Solvents*; Version in SIP = Current, 40 CFR 52.220(c)(51)(xii)(B) - 06/09/82 47 FR 25013]

2. Owner/Operator of any coating, coating operation, or facility which is exempt from all or a portion of the VOC limits of Rule 1114 shall comply with the provisions of Rule 442 unless compliance with the limits specified in Rule 1114 are achieved.

[Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(244)(i)(C)(1) - 08/18/98 63 FR 44132]

3. The Grams of VOC Per Liter of Coating limits of Rule 1114 shall not apply to facilities meeting one or more of the following:
  - (a) Facilities that use a total of less than one gallon of coating, including any VOC-containing materials added to the original coating as supplied by the manufacturer, subject to this rule, in any one day, or; surface coating operations that emit not more than 3 pounds of VOCs per day and not more than 200 pounds of VOCs per calendar year.
  - (b) Wood products coating operations which emit not more than 3 pounds of VOC per hour, before add-on controls.
  - (c) Wood products coating operations which emit not more than 15 pounds of VOC per day, before add-on controls.
  - (d) Facilities that do not exceed 10 tons per year theoretical potential emissions. "Theoretical potential emissions" is defined as the greater of design capacity or maximum production (based on 8760 hours/year) before add-on controls.

[Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(244)(i)(C)(1) - 08/18/98 63 FR 44132]
4. For the purposes of claiming an exemption pursuant Rule 1114, hourly or daily emissions shall be considered from January 1, 1996 forward.

[Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(244)(i)(C)(1) - 08/18/98 63 FR 44132]
5. Owner/Operator of any facility classified as exempt or claiming to be exempt under Rule 1114, shall meet the record keeping requirements of Rule 1114 so as to be able to certify the exemption status.

[Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(244)(i)(C)(1) - 08/18/98 63 FR 44132]
6. Once facility emissions exceed 3 pounds of VOC per hour, or 15 pounds of VOC per day, respectively, Owner/Operator and facility will remain subject to the Grams of VOC Per Liter of Coating limits of Rule 1114 even if facility emissions later fall below the applicability threshold.

[Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(244)(i)(C)(1) - 08/18/98 63 FR 44132]
7. Owner/Operator shall not apply coatings to wood products subject to the provisions of Rule 1114 unless the coating is applied with properly operating equipment, according to manufacturer's suggested guidelines, using one or more of the following methods:
  - (a) Flow Coat.
  - (b) Dip Coat.
  - (c) High-Volume Low-Pressure (HVLV) spray.
  - (d) Paint brush.
  - (e) Hand roller.
  - (f) Roll Coater.

[Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, 40 CFR

52.220(c)(244)(i)(C)(1) - 08/18/98 63 FR 44132]

8. Owner/Operator of wood products coating operations shall not apply any coating to a wood product which has a VOC content, including any VOC-containing material added to the original coating supplied by the manufacturer, which exceeds the applicable limit specified below, unless emissions to the atmosphere are controlled by air pollution abatement equipment with an overall capture and abatement efficiency of at least 85 percent as determined pursuant to Rule 1114 requirements:

<u>Coating</u>	<u>LIMITS</u>	
	<u>Grams of VOC Per Liter of Coating,</u>	
	<u>Less Water and Less Exempt Compounds</u>	
	<u>(g/L)</u>	<u>(lb/gal)</u>
Clear Topcoats		
containing Group II		
exempt compounds	275	2.3
not containing Group II		
exempt compounds	275	2.3
Fillers	275	2.3
High-Solid Stains	240	2.0
Inks	500	4.2
Mold-Seal Coatings	750	6.3
Multi-Colored Coatings	275	2.3
Pigmented Coatings	275	2.3
Sealers:		
containing Group II		
exempt compounds	240	2.0
not containing Group II		
exempt compounds	240	2.0
Strippers	350	2.9
Adhesives	250	2.1
Low-Solids Stains, Toners,		
or Wash Coats:		
containing Group II		
exempt compounds	120	1.0
not containing Group II		
exempt compounds	120	1.0

[Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(244)(i)(C)(1) - 08/18/98 63 FR 44132]

9. Owner/Operator using solvent for surface preparation and cleanup at facility shall comply with the following Rule 1114 requirements:
- (a) Owner/Operator shall not use an organic compound for surface preparation, except strippers, with a VOC content in excess of 200 grams of VOC per liter of material (1.67 pounds per

- gallon).
- (b) Owner/Operator shall use closed, nonabsorbent containers for the storage or disposal of cloth or paper used for solvent surface preparation and cleanup.
  - (c) Owner/Operator shall store fresh or spent solvent in closed containers.
  - (d) Owner/Operator shall not use organic compounds for the cleanup of spray equipment including paint lines unless an enclosed system is used for cleanup. The system must enclose spray guns, cups, nozzles, bowls, and other parts during washing, rinsing and draining procedures. Equipment used shall minimize the evaporation of organic compounds to the atmosphere.
- [Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(244)(i)(C)(1) - 08/18/98 63 FR 44132]
10. Owner/Operator shall not specify use at the facility any coating to be applied to any wood products, subject to the provisions of Rule 1114, that does not meet the limits and requirements of Part II, Conditions F.7, F.8, and F.9, above. The requirements of Part II, Condition F.8 above shall apply to all written or oral contracts.
- [Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(244)(i)(C)(1) - 08/18/98 63 FR 44132]
11. Owner/Operator of facility subject to the requirements of Rule 1114 shall comply with the following requirements:
- (a) Facility coating operation shall have a continuous monitor, as approved by the APCO/District, for any add-on control device used to meet the control requirement of Part II, Condition F.8.
  - (b) Facility coating operation records of the monitoring devices pursuant to Part II, Condition F.11(a) and other data necessary to demonstrate compliance with the control requirements shall be maintained on the premises and made accessible to the District in a form and manner as specified by the APCO/District for a period of 5 years pursuant to Rule 1114 and Title V requirements.
  - (c) Compliance with Part II, Condition F.8 control efficiency requirements shall be determined by source testing and/or evaluating continuous monitor data.
  - (d) Each monitoring device used pursuant to Part II, Condition F.11(a) shall be calibrated in a manner approved by the APCO/District; and maintained in optimum working order.
- [Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(244)(i)(C)(1) - 08/18/98 63 FR 44132]
12. Owner/Operator shall supply the following information to the District from the manufacturer of coatings subject to this rule: Information shall include a designation of VOC as supplied on data sheets; including coating components, expressed in grams per liter or pounds per gallon, excluding water and exempt solvents.
- [Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(244)(i)(C)(1) - 08/18/98 63 FR 44132]
13. Owner/Operator shall not increase use of the Group II exempt compounds, methylene chloride and/or 1,1,1-trichloroethane, to meet the VOC content standards of Rule 1114.

[Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(244)(i)(C)(1) - 08/18/98 63 FR 44132]

14. Owner/Operator shall apply coatings to metal parts and products subject to the provisions of Rule 1115 by using equipment properly operated according to manufacturer's suggested guidelines using one or more of the following methods:
- (a) Electrostatic attraction.
  - (b) High Volume Low Pressure (HVL) spray equipment.
  - (c) Dip coat.
  - (d) Hand Application Methods.

[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]

15. Owner/Operator shall not apply to metal parts and products any coatings, including any VOC-containing materials added to the original coating supplied by the manufacturer, which contain VOC in excess of the limits specified below unless emissions to the atmosphere are controlled to an equivalent level by air pollution abatement equipment with a capture and control system Combined Efficiency of at least 85 percent:

LIMITS

(Grams of VOC Per Liter of Coating, Less Water and Less Exempt Compounds)

<u>Coating</u>	<u>Air Dried</u>		<u>Baked</u>	
	gr/L	(lb/gal)	gr/L	(lb/gal)
General	420	(3.5)	360	(3.0)
Military Specification	420	(3.5)	360	(3.0)
Etching Filler	420	(3.5)	420	(3.5)
Solar-Absorbent	420	(3.5)	360	(3.0)
Heat-Resistant	420	(3.5)	360	(3.0)
High-Gloss	420	(3.5)	360	(3.0)
Extreme High-Gloss	420	(3.5)	360	(3.0)
Metallic	420	(3.5)	420	(3.5)
Extreme Performance	420	(3.5)	360	(3.0)
Prefabricated Architectural				
Component	420	(3.5)	275	(2.3)
Touch Up	420	(3.5)	360	(3.0)
Repair	420	(3.5)	360	(3.0)
Silicone-Release	420	(3.5)	420	(3.5)
High Performance				
Architectural	420	(3.5)	420	(3.5)
Camouflage	420	(3.5)	420	(3.5)
Vacuum-Metalizing	420	(3.5)	420	(3.5)
Mold-Seal	420	(3.5)	420	(3.5)
High-Temperature	420	(3.5)	420	(3.5)

Electric-Insulating Varnish	420	(3.5)	420	(3.5)
Pan-Backing	420	(3.5)	420	(3.5)
Pretreatment Wash Primer	420	(3.5)	420	(3.5)
Clear Coating	520	(4.3)	520	(4.3)

[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]

16. The provisions of Part II, Condition F.14 shall not apply to the application of touch-up coatings, repair coatings, textured coatings, metallic coatings which have a metallic content of more than 30 grams per liter, mold-seal coatings, and to facilities that use less than three gallons of such coatings per day, as applied, including any VOC-containing materials added to the original coatings as supplied by the manufacturer.  
 [Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
17. The provisions of Part II, Conditions F.14 and F.15 shall not apply to:
  - (a) A facility which uses a total of less than one gallon of coating in any one day, including any VOC-containing materials added to the original coating as supplied by the manufacturer.
  - (b) Total noncompliant coating use per facility that does not exceed 55 gallons per year.
  - (c) Stencil coatings.
  - (d) Safety-indicating coatings.
  - (e) Magnetic data storage disk coatings.
  - (f) Solid-film lubricants.
  - (g) Adhesives.
  - (h) The coating of motor vehicle bodies at motor vehicle rework facilities.
 [Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
18. Owner/Operator of any facility classified as exempt or claiming to be exempt under Rule 1115, shall meet the record keeping requirements of Rule 1115 so as to be able to certify the exemption status.  
 [Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
19. Owner/Operator of any coating, coating operation, or facility which is exempt from all or a portion of the VOC limits of Rule 1115 shall comply with the provisions of Rule 442 unless compliance with the limits specified in Rule 1115 are achieved.  
 [Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
20. Owner/Operator shall comply with the following requirements when using solvent for surface preparation, cleanup, and paint removal, including paint spray equipment:
  - (a) (i) VOC-containing materials for surface preparation shall not have a VOC content in

- excess of 200 grams of VOC per liter of material (1.67 pounds per gallon); or
    - (ii) VOC-containing materials has an initial boiling point of 190 deg C (374 deg F) or greater; or
    - (iii) VOC-containing materials has a total VOC vapor pressure of 20 mm Hg or less, at 20 deg C (68 deg F).
  - (b) Owner/Operator shall use closed, nonabsorbent containers for the storage or disposal of cloth or paper used for solvent surface preparation and cleanup.
  - (c) Owner/Operator shall store fresh or spent solvent in closed containers.
  - (d) Owner/Operator shall not use organic compounds for the cleanup of spray equipment including paint lines unless an enclosed system is used for cleanup. The system shall enclose spray guns, cups, nozzles, bowls, and other parts during washing, rinsing and draining procedures. Equipment used shall minimize the evaporation of organic compounds to the atmosphere.
- [Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
- 21. Owner/Operator shall not specify the use in the District of any coating to be applied to any metal parts and products subject to the provisions of this Rule 1115 that does not meet the limits and requirements of Rule 1115. This requirement applies to all written or oral contracts.  
[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
- 22. Owner/Operator subject to Part II, Conditions F.14, F.15, F.17(b), F.17(c), and F.20 shall comply with the following requirements:
  - (a) Owner/Operator shall maintain and have available during an inspection, a current list of coatings in use which provides all of the coating data necessary to evaluate compliance, including the following information, as applicable:
    - 1. coating, catalyst, and reducer used.
    - 2. mix ratio of components used.
    - 3. VOC content of coating as applied.
    - 4. quantity of Group II exempt compounds used.
  - (b) Owner/Operator shall maintain records on a daily basis including:
    - 1. coating and mix ratio of components used in the coating; and
    - 2. quantity of each coating applied.
  - (c) Owner/Operator shall maintain records on a daily basis showing the type and amount of solvent used for cleanup, surface preparation, and paint removal.
  - (d) Records shall be retained and available for inspection by the District for the previous 5 year period as required by Title V program.
- [Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
- 23. Owner/Operator shall obtain, and maintain records from the coating/paint manufacturer regarding the VOC content of the coating/paint and any solvents contained therein.  
[Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, 40 CFR



52.220(c)(244)(i)(C)(1) - 08/18/98 63 FR 44132]

[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements* ] ( *for Periodic Monitoring Requirements, see Part III, section D, conditions 3,4,5 and 6*)

24. The Owner/Operator of any facility electing to engage in the mixing of coatings/ paints or solvents shall be required to obtain and maintain an analysis of the mixture from an independent testing laboratory.  
[Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(244)(i)(C)(1) - 08/18/98 63 FR 44132]  
[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements* ] ( *for Periodic Monitoring Requirements, see Part III, section D, conditions 3,4,5 and 6*)

G. CONDITIONS APPLICABLE TO GASOLINE DISPENSING FACILITY (non-retail),  
MDAQMD PERMIT NUMBER N001424:

1. Owner/Operator shall not sale or supply for use within the District as a fuel for motor vehicles as defined by the Vehicle Code of the State of California, gasoline having a degree of unsaturation greater than that indicated by a Bromine Number of 30 as determined by ASTM Method D1159-66.  
[Rule 432 - *Gasoline Specifications*; Version in SIP = Current, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 - 43 FR 40011]
2. Owner/Operator shall not transfer, permit the transfer or provide equipment for the transfer of gasoline into or from any tank truck, trailer, or railroad tank car into the gasoline storage tank unless the transfer is made to tank equipped as required in Rule 463 or unless all of the following conditions are met:
  - (a) Tank is equipped with a permanent submerged fill pipe, and
  - (b) Such delivery vessel or tank is equipped with a vapor recovery system which has been certified by the California Air Resources Board, and the facility's vapor recovery system shall be capable of recovering or processing 95% of the displaced gasoline vapors, and
  - (c) All vapor return lines are connected between the tank truck, trailer, or railroad tank car and the gasoline tank, and the vapor recovery system is in operation in accordance with the manufacturer's specifications, and the delivery vehicle, including all hoses, fittings, and couplings, is maintained in a vapor-tight condition, as defined by the applicable California Air Resources Board certification and test procedures (Part III of Title V permit), and all equipment is operated and maintained according to the manufacturer's specifications.
  - (d) Hatch openings are limited to no more than 3 minutes in duration for visual inspection, provided that pumping has been stopped for at least 3 minutes prior to opening, and the hatch is closed fully before pumping is resumed.

- (e) All lines are gravity drained, in such a manner that upon disconnect no liquid spillage would be expected; and
- (f) Equipment subject to this condition shall be operated and maintained, with no defects, as follows:
  - (i) All fill tubes are equipped with vapor-tight covers, including gaskets; and
  - (ii) All dry breaks have vapor-tight seals and are equipped with vapor-tight covers or dust covers; and
  - (iii) Coaxial fill tubes are operated so there is no obstruction of vapor passage from the storage tank back to the delivery vehicle; and
  - (iv) The fill tube assembly, including fill tube, fittings and gaskets, is maintained to prevent vapor leakage from any portion of the vapor recovery system; and
  - (v) All storage tank vapor return pipes without dry breaks are equipped with vapor-tight covers, including gaskets.

[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]

- 3. Owner/Operator shall not transfer, or permit the transfer, or provide equipment for the transfer of gasoline from the gasoline storage tank into any motor vehicle tank of greater than 19 liters (5 gallons) capacity unless:
  - (a) The dispensing unit used to transfer the gasoline from the gasoline tank to the motor vehicle fuel tank is equipped with a vapor recovery system which has been certified by the California Air Resources Board as capable of recovering 95% of the displaced gasoline vapors; and
  - (b) The vapor recovery system is operating in accordance with the manufacturer's specifications; and
  - (c) Equipment is operated and maintained with none of the following defects, pursuant to the definitions in California Administrative Code Section 94006, Subchapter 8, Chapter 1, Part III, of Title 17:
    - (i) Torn or cut boots;
    - (ii) Torn or cut face seals or face cones;
    - (iii) Loose or broken retractors;
    - (iv) Boots clamped or otherwise held in an open position;
    - (v) Leaking nozzles;
    - (vi) Loose, missing, or disconnected nozzle components, including but not limited to boots, face seals, face cones, check valve wires, diaphragm covers and latching devices;
    - (vii) Defective shutoff mechanisms;
    - (viii) Loose, missing, or disconnected vapor fuel hoses and associated components including but not limited to flow restrictors, swivels and anti-recirculation valves;
    - (ix) Crimped, cut, severed, or otherwise damaged vapor or fuel hoses;
    - (x) Missing, turned off, or otherwise not operating assist type vapor recovery systems, or any components of such systems;
    - (xi) Improper or non-"CARB certified" equipment or components;

- (xii) Inoperative, severely malfunctioning or missing vacuum producing device;
- (xiii) Inoperative, loose, missing or disconnected pressure/vacuum relief valves, vapor check valves or dry breaks.

[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]

4. Vapor processing or vapor recovery system used by Owner/Operator shall comply with all safety, fire, weights and measures, and other applicable codes and/or regulations.  
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]
5. Owner/Operator shall not install any new or rebuilt vapor recovery equipment unless the components and parts clearly identify by markings the certified manufacturing company and/or certified rebuilding company.  
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]
6. Vapor recovery system shall at all times be maintained in accordance with the manufacturer's specifications and the State's certification.  
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]
7. When problems or defects are detected and are associated with any vapor recovery, storage, delivery vessel or dispensing equipment, other than a breakdown of the central vapor incineration or processing unit, the Owner/Operator shall at the end of the cycle, as defined in Rule 461, remove the equipment from service and not use the equipment until it has been repaired, replaced or adjusted as necessary to remove the problem or defect.  
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]
8. Owner/Operator shall not perform or permit the "pump-out" (bulk transfer) of gasoline from the gasoline storage tank unless such bulk transfer is performed using a vapor recovery system capable of returning the displaced vapors from the delivery vessel or other container being filled back to the gasoline storage tank. This vapor recovery is not required where the container is to be removed or filled with water for testing. For visual inspections, the requirements of Part II, Condition G.2.d. are applicable.  
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]
9. Owner/Operator shall not store, or allow the storage of, gasoline in the gasoline storage tank unless the tank is equipped with a permanent submerged fill pipe and a certified vapor recovery system.  
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]

10. Owner/Operator shall conspicuously post in the gasoline dispensing area the operating instructions, the District's toll-free telephone number for complaints and a District-specified warning sign.  
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]
  
- H. CONDITIONS APPLICABLE TO MDAQMD PERMIT NUMBER T001100, STORAGE TANK NUMBER 1; A FIXED ROOF STORAGE TANK WITH DIMENSIONS OF 100 FEET DIAMETER AND 43 FEET HIGH; THE TOTAL VOLUME IS "2.52 MILLION GALLONS".
  1. Owner/Operator is limited to storing only diesel/distillate fuels in this tank at this facility containing sulfur compounds with a sulfur content not exceeding 0.5 percent by weight. The sulfur content of diesel/distillate fuel shall be determined by use of ASTM method D 2622-82, or (ASTM method D 2880-71, or equivalent).  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for *Periodic Monitoring Requirements*, see: *Part II, section A, condition 22*; *Part III, section A, condition 4*; *Part III, section B, conditions 1 and 4*; *Part III, section C, conditions 11 and 22*; *Part V, section C, condition 4*; *Part V, section D, condition 3*; *Part V, section E, condition 1*; *Part V, section I, conditions 2 and 3*)  
[Rule 431 - *Sulfur Content of Fuels*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 - 43 FR 40011; Current Rule Version = 07/25/77]  
[Rule 203 - *Permit to Operate*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
  2. All of components of the facility including but not limited to tanks, flanges, seals, pipes, pumps, valves, meters, connectors, shall be maintained and operated so as to prevent fugitive vapor leaks, fugitive liquid leaks and excess organic liquid drainage during transfer, storage and handling operations.  
[Rule 462 - *Organic Liquid Loading*; Version in SIP = Current, CFR citing unknown]
  3. Uncontrolled switch loading is prohibited unless:
    - (a) Any vapors vented to the atmosphere do not, at any point during the transfer, exceed 10,000 ppmv, measured as equivalent methane, with a portable hydrocarbon analyzer in accordance with EPA Method 21, or
    - (b) Emissions are controlled by a vapor recovery system.[Rule 462 - *Organic Liquid Loading*; Version in SIP = Current, CFR citing unknown]
  4. Owner/Operator of organic liquid loading facility is responsible for complying with the provisions of Part II, section "H" conditions, and for maintaining the equipment at the facility in such condition that it can comply with the requirements of these conditions if properly operated. If

employees of the Owner/Operator of the facility supervise or effect the transfer operation, the Owner/Operator of the facility shall be responsible for ensuring that the transfer operation complies with all requirements of these conditions and insure transfer equipment is properly operated.

[Rule 462 - *Organic Liquid Loading*; Version in SIP = Current, CFR citing unknown]

5. Owner/Operator shall not place, store or hold in tank (District permit #,T001100), any organic liquid having a true vapor pressure of 77.5 mm Hg (1.5 psia) or greater under actual storage conditions without first obtaining an advance approval from the District through modification of this Federal Operating Permit and MDAQMD "District" Permits. In addition, these "Modified Permits" shall provide for this tank to be designed and equipped with the following vapor loss control devices, properly installed, properly maintained and in good operating order:
- (a) A fixed roof with an internal-floating-type cover that rests on the surface of the liquid contents at all times except as provided in Part II, Condition 8, and is equipped with a closure device:
    - (i) Fixed roof tank closure device shall consist of either a liquid mounted primary seal only or two seals, a primary and a secondary seal. All openings and fittings shall be fully gasketed and/or controlled in a manner specified by the APCO/District. The closure device shall control vapor loss with an effectiveness equivalent to a closure device which meets the requirements of Part II, Condition H.5(b). Internal floating roof and seal designs shall be submitted to and approved by the APCO/District prior to any installation, modification or use thereof.
    - (ii) Compliance shall be verified by measuring with an explosimeter the concentration of organic compound in the vapor space above the internal floating roof, in terms of the lower explosive limit (LEL). Such reading for an internal floating roof shall not exceed 50 percent of the LEL for those installed prior to December 19, 1988 and 30 percent of the LEL for those installed after December 19, 1988.
    - (iii) Visual Inspection of the secondary seal shall be performed by the tank Owner/Operator semi-annually. A record of such inspection shall be maintained and such records shall be made available for review by District personnel upon request.
    - (iv) The primary and secondary seals shall be inspected and repaired, if necessary, each time the tank is emptied and gas-freed. The APCO/District shall be notified at least 48 hours in advance of each such gas-freeing.
  - (b) Fixed roof tank vapor recovery system shall be capable of collecting and processing all organic vapors and gases so as to prevent their emission to the atmosphere at an efficiency of at least 95 percent by weight:
    - (i) Tank gauging or sampling device shall be equipped with a gas-tight cover which shall be closed at all times except during gauging or sampling.
    - (ii) All piping, valves and fittings shall be constructed and maintained in a gas tight condition, such that no organic vapor or gas leaks are detectable.
  - (c) Other equipment having a vapor loss control efficiency of at least 95% by weight, provided an application for installation of such equipment is submitted to and written approval is received from the APCO/District prior to the commencement of construction and/or operation.

[Rule 463 - *Storage of Organic Liquid*; Version in SIP = Current, CFR citing unknown]

6. Owner/Operator shall maintain and operate all components of facility including but not limited to tanks, flanges, seals, pipes, pumps, valves, meters, connectors, to prevent fugitive vapor leaks (maintain vapor tightness), fugitive liquid leaks, and excess organic liquid drainage during transfer, storage and handling operations so as to meet Part II, section “H” conditions, and any applicable control efficiency requirements.  
[Rule 463 - *Storage of Organic Liquid*; Version in SIP = Current, CFR citing unknown]
7. Efficiency, as used in Part II, section “H” conditions, means a comparison of controlled emissions to those emissions which would occur from tank in the same product service without a vapor control system. Base line emissions shall be calculated by using the criteria outlined in American Petroleum Institute Bulletin 2518.  
[Rule 463 - *Storage of Organic Liquid*; Version in SIP = Current, CFR citing unknown]
8. Owner/Operator shall insure that roof of internal floating roof tank is floating on the liquid at all times (i.e. free of the roof leg supports) except when the tank is being completely emptied for cleaning, or repair.  
[Rule 463 - *Storage of Organic Liquid*; Version in SIP = Current, CFR citing unknown]
9. Owner/Operator shall insure that the process of emptying, and/or refilling, when the roof is resting on the leg supports, shall be continuous and shall be accomplished as rapidly as possible.  
[Rule 463 - *Storage of Organic Liquid*; Version in SIP = Current, CFR citing unknown]
10. “Fugitive Liquid Leak” means the dripping of a liquid at a rate exceeding three (3) drops per minute. “Fugitive Vapor Leak” (vapor tightness) means the detection of less than 10,000 ppm, as methane, using an appropriate hydrocarbon analyzer when sampling is performed according to the procedures specified in EPA Method 21. Annual visual inspections and yearly spot checks with an appropriate hydrocarbon analyzer according to EPA Method 21 shall be required to demonstrate compliance with “Fugitive Liquid Leak” and “Fugitive Vapor Leak” (vapor tightness) specified in this condition.  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for *Periodic Monitoring Requirements*, see: Part III, section “F”, condition 10)  
[Rule 462 - *Organic Liquid Loading*; Version in SIP = Current, CFR citing unknown]  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]  
[MDAQMD Title V Program, MDAQMD Rules 1200 through 1210 (Regulation XII - *Federal Operating Permits*); Applicable via Title V Program interim approval 02/05/96 61 FR 4217]
11. Diesel / Distillate fuel stored shall comply with the following Rule 463 limit:

MOJAVE DESERT  
AIR QUALITY MANAGEMENT DISTRICT  
RULE 463 - ADDENDUM  
STORAGE TEMPERATURES vs. ACTUAL VAPOR PRESSURE

(gravity/initial boiling points referenced)

Reference Property		Temperature, °F	
A - °API		Not to Exceed Vapor Pressure	
B - IBP, °F		0.5 psia	1.5 psia
<u>Organic Liquids</u>	A      B		
<u>Middle Distillates</u>			
Diesel	36.4    372 °F	230 °F	290 °F
[Rule 463 - <i>Storage of Organic Liquid</i> ; Version in SIP = Current, CFR citing unknown]			

### PART III

## MONITORING, RECORDKEEPING, REPORTING AND TESTING REQUIREMENTS

A. STANDARD MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS:

1. Any data and records required to be generated and/or kept by any portion of this permit shall be kept current and on site for a minimum of five (5) years from the date generated pursuant to Title V Program requirements and shall be provided to District, state, or federal personnel upon request. [40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)].
2. Any reports generated from monitoring required by any portion of this permit shall be submitted by the facility Owner/Operator to the MDAQMD at least every six (6) months unless another time period is specified in the specific provision requiring monitoring. [40 CFR 70.6(a)(3)(iii)(A); Rule 1203(D)(1)(e)(i)]
3. Any Compliance/Performance testing required by this Federal Operating Permit shall follow the administrative procedures contained in the District's Compliance Test Procedural Manual. Any required annual Compliance and/or Performance Testing shall be accomplished by obtaining advance written approval from the District pursuant to the District's Compliance Test Procedural Manual. All emission determinations shall be made as stipulated in the Written Test Protocol accepted by the District. When proposed testing involves the same procedures followed in prior District approved testing, then the previously approved Written Test Protocol may be used with District concurrence. Daily, Quarterly, or Annual CEMS Performance Specifications/Certification and/or Quality Assurance Testing [RATA] shall be subject to the procedures prescribed in 40 CFR 51, Appendix P; 40 CFR 60, Appendix A, B and F; and 40 CFR 75, Appendix A and B. Records of the occurrence and duration of any startup, shutdown, or malfunction, performance testing, evaluations, calibrations, checks, adjustments, and maintenance of the CEMS per 40 CFR 60.7 is also required. Results of CEMS must be reduced according to 40 CFR, Part 51, as well as averaged in accordance with 40 CFR 60.13. *See Part III(A)(3); Parts III(C)(1, 2, 3, 4, 5) of this permit.*  
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements ]  
[SIP Pending: Rule 1158 - Electric Utility Operations as adopted 08/25/97 and submitted 03/10/98]  
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
4. Owner/Operator of permit units subject to Comprehensive Emissions Inventory Report / Annual Emissions Determinations for District, state, and federal required Emission Inventories shall monitor and record the following for each unit:
  - (a) The cumulative annual usage of each fuel type. The cumulative annual usage of each fuel type shall be monitored from utility service meters, purchase or tank fill records.
  - (b) Fuel suppliers fuel analysis certification/guarantee including fuel sulfur content shall be



kept on site and available for inspection by District, state or federal personnel upon request. The sulfur content of diesel/distillate fuel shall be determined by use of ASTM method D 2622-82, or (ASTM method D 2880-71, or equivalent).

- (b) The HHV for diesel/distillate fuels burned shall be determined from daily samples and reported as a monthly average for each month; the sampling and analysis procedures of Appendix D to 40 CFR 75 may be used.

*[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements] (for Periodic Monitoring Requirements, see: Part II, section A, condition 22; Part III, section A, condition 4; Part III, section B, conditions 1 and 4; Part III, section C, conditions 11 and 22; Part V, section C, condition 4; Part V, section D, condition 3; Part V, section E, condition 1; Part V, section I, conditions 2 and 3)*

**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98][Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

[ California Clean Air Act, Health and Safety Code §§39607 and §§44300 et seq., and the Federal Clean Air Act, §110(a)(2)(F)(ii), codified in 40 CFR 60 Subpart Q ]

B. EQUIPMENT SPECIFIC MONITORING, RECORDKEEPING, REPORTING AND TESTING REQUIREMENTS APPLICABLE TO MDAQMD PERMIT # B001892, 49 MM Btu/hr Auxiliary Boiler:

1. Owner/Operator of Auxiliary Boiler subject to Part II conditions limiting fuel type, quality and quantity shall monitor and record the following: [Note: Auxiliary Boiler NOT served by CEMS, see Part I facility descriptions]
- (a) The cumulative annual usage of each fuel. The cumulative annual usage of each fuel shall be monitored from utility service meters, purchase or tank fill records.
- (b) Fuel suppliers fuel analysis certification/guarantee including fuel sulfur content shall be kept on site and available for inspection by District, state or federal personnel upon request. The sulfur content of diesel/distillate fuel shall be determined by use of ASTM method D 2622-82, or (ASTM method D 2880-71, or equivalent).
- (c) The HHV for diesel/distillate fuels burned shall be determined from daily samples and reported as a monthly average for each month; the sampling and analysis procedures of 40 CFR 75, Appendix D may be used.

*[ 40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements] ( for Periodic Monitoring Requirements, see Part III, section B, conditions 1 through 7)*

**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

2. All pounds of NO<sub>x</sub> per day calculations shall be determined as the sum of the hourly mass emissions.

*[ 40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements ] ( for Periodic Monitoring*

*Requirements, see Part III, section B, conditions 1 through 7 )*

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]

3. All concentration and emission limits specified in Part II, Section “D” Conditions, for Auxiliary Boiler are referenced at dry stack-gas conditions and 3.0 percent by volume stack-gas oxygen as an hourly average.

*[ 40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements ] ( for Periodic Monitoring Requirements, see Part III, section B, conditions 1 through 7 )*

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]

4. Owner/Operator shall maintain Auxiliary Boiler operating logs on a daily basis. The operating logs shall include, at a minimum, the following information:

- (a) The actual start-up and stop times.
- (b) The hours of operation per day.
- (c) The hourly averaged NO<sub>x</sub> emission concentration for Auxiliary Boiler.
- (d) A monthly summary of the accumulative aggregated annual pounds of NO<sub>x</sub> emissions for the facility.
- (e) The type, quality and quantity of fuel used, including fuel sulfur content. The sulfur content of diesel/distillate fuel shall be determined by use of ASTM method D 2622-82, or (ASTM method D 2880-71, or equivalent).

*[ 40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements ] ( for Periodic Monitoring Requirements, see Part III, section B, conditions 1 through 7 )*

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]

5. Owner/Operator of Auxiliary Boiler is subject to the requirements of Part II (D) Conditions limiting fuel combustion and mass emission limits [annual, daily (24hour), hourly] and shall:

- (a) Shall have or install volumetric flow rate meters in each liquid fuel line ; or
- (b) Shall have or install volumetric flow rate meters in conjunction with temperature and pressure probes in each gaseous fuel line; or
- (c) Shall maintain a fuel log in the form and manner prescribed and approved by the District.

*[ 40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements ] ( for Periodic Monitoring Requirements, see Part III, section B, conditions 1 through 7 )*

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]

6. Any Compliance Testing for Auxiliary Boiler shall be performed in accordance with the following methods:
- (a) Oxides of Nitrogen - EPA Method 7E or ARB Method 100.
  - (b) Stack Gas Oxygen - EPA Method 3 or 3A or ARB Method 100
  - (c) NO<sub>x</sub> Mass Emission Rate - EPA Method 19
  - (d) HHV determination shall be by one of the following test methods:
    - (i) for diesel/distillate hydrocarbon fuels - ASTM D 240-87, or ASTM D 2382-88; or
    - (ii) for PUC quality natural gas fuels - ASTM D 1826-88, or ASTM D 1945-81 in conjunction with ASTM D 3588-89; or
    - (iii) The HHV for diesel/distillate fuels burned may also be determined from the sampling and analysis procedures of 40 CFR 75, Appendix D.
- [ 40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements* ] ( *for Periodic Monitoring Requirements, see Part III, section B, conditions 1 through 7* )  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]  
**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]
7. (a) Compliance with Auxiliary Boiler NO<sub>x</sub> and/or Particulate Matter emission limits (concentration and/or mass emission rate) shall be established by exhaust stack emissions sampling at a minimum of every 5 years (60 months) per Rule 475 if Auxiliary Boiler is operational.
- (b) Auxiliary Boiler is currently non-operational and is not being used. However, if Auxiliary Boiler is to be operated in the future a compliance source test (exhaust stack emissions sampling) will be required to demonstrate compliance with all emission limits listed in Part II, section D, condition 3. In addition, if Auxiliary Boiler is restarted on diesel/distillate fuel, then the Auxiliary Boiler will be limited to an annual limit of 700 hours per year of operation on an annual rolling average basis. If owner/operator wishes to operate the Auxiliary Boiler in excess of 700 hours per year then annual exhaust stack source testing will be required. The District must approve the testing protocol in advance of any testing and must witness any testing.
- [40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] ( *for Periodic Monitoring Requirements, see Part III, section B, conditions 1 through 7* )  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]  
**[SIP Pending:** Rule 475 - *Electric Power Generating Equipment* as adopted 08/25/97 and submitted 03/10/98]  
**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]

C. EQUIPMENT SPECIFIC MONITORING, RECORDKEEPING, REPORTING AND TESTING  
REQUIREMENTS APPLICABLE TO THE FOLLOWING UTILITY EQUIPMENT:

MDAQMD Permit # B001079, Unit # 31, 73 MW Turbine  
MDAQMD Permit # B001080, Unit # 32, 73 MW Turbine  
MDAQMD Permit # B001081, Unit # 41, 73 MW Turbine  
MDAQMD Permit # B001082, Unit # 42, 73 MW Turbine  
MDAQMD Permit # B001077, Unit # 1, 64 MW Boiler  
MDAQMD Permit # B001078, Unit # 2, 75 MW Boiler

1. Owner/Operator shall follow the *Quality Assurance Procedures* as outlined in 40 CFR 75, Appendix B. The *Quality Assurance Procedures/Program* includes, but is not limited to: a *Daily Calibration Error Determination*; a *Quarterly Linearity Error Test*; and an *Annual Relative Accuracy Test Audit*. The *Quality Assurance Procedures/Program* required *Annual Relative Accuracy Test Audit* shall require an advance written District approval. Daily, Quarterly, or Annual CEMS Performance Specifications/Certification and/or Quality Assurance Testing [RATA] shall be subject to the procedures prescribed in 40 CFR 51, Appendix P; 40 CFR 60, Appendix A, B and F; and 40 CFR 75, Appendix A and B. Records of the occurrence and duration of any startup, shutdown, or malfunction, performance testing, evaluations, calibrations, checks, adjustments, and maintenance of the CEMS per 40 CFR 60.7 is also required. Results of CEMS must be reduced according to 40 CFR, Part 51, as well as averaged in accordance with 40 CFR 60.13.  
[ 40 CFR 70.6(a)(1) - Periodic Monitoring Requirements ] ( for Periodic Monitoring Requirements, see Part III(A)(3); and, Parts III(C)(1, 2, 3, 4, 5) of this permit )  
[SIP Pending: Rule 1158 - Electric Utility Operations as adopted 08/25/97 and submitted 03/10/98]  
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
2. Owner/Operator shall submit to the District all related CEMS reports and data used for Compliance Determinations on a quarterly basis. At a minimum these Emission Compliance Reports shall identify the magnitude, duration, date and time period of excess emissions. These Reports shall be contemporaneously submitted to the District upon submission to the USEPA.  
[ 40 CFR 70.6(a)(1) - Periodic Monitoring Requirements ] ( for Periodic Monitoring Requirements, see Part III(A)(3); and, Parts III(C)(1, 2, 3, 4, 5) of this permit )  
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
3. Owner/Operator shall perform CEMS required *Relative Accuracy Test Audits*, *Cylinder Gas Audits*, or *Linearity Error Tests* shall notify the District prior to such testing. The District reserves the right to observe any Compliance Testing or Calibration of CEMS.  
[ 40 CFR 70.6(a)(1) - Periodic Monitoring Requirements ] ( for Periodic Monitoring

*Requirements, see Part III(A)(3); and, Parts III(C)(1, 2, 3, 4, 5) of this permit )*

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

4. *Annual Relative Accuracy Test Audits [RATA]* shall be conducted in accordance with provisions of 40 CFR 75, Appendix A, Section 6, Part 6.5. Daily, Quarterly, or Annual CEMS Performance Specifications/Certification and/or Quality Assurance Testing [RATA] shall be subject to the procedures prescribed in 40 CFR 51, Appendix P; 40 CFR 60, Appendix A, B and F; and 40 CFR 75, Appendix A and B. Records of the occurrence and duration of any startup, shutdown, or malfunction, performance testing, evaluations, calibrations, checks, adjustments, and maintenance of the CEMS per 40 CFR 60.7 is also required. Results of CEMS must be reduced according to 40 CFR, Part 51, as well as averaged in accordance with 40 CFR 60.13.  
[ 40 CFR 70.6(a)(1) - *Periodic Monitoring Requirements* ] ( *for Periodic Monitoring Requirements, see Part III(A)(3); and, Parts III(C)(1, 2, 3, 4, 5) of this permit* )  
[**SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
5. Owner/Operator is required to perform *Annual CEMS Certification and/or Quality Assurance Testing Audits* [RATA] shall submit a copy of the report(s) [including supporting data and calculations] to the MDAQMD within 45 days of testing completion in the format approved by the District.  
[ 40 CFR 70.6(a)(1) - *Periodic Monitoring Requirements* ] ( *for Periodic Monitoring Requirements, see Part III(A)(3); and, Parts III(C)(1, 2, 3, 4, 5) of this permit* )  
[**SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]
6. Owner/Operator must have CEMS equipment installed, maintained, certified and operating on all applicable exhaust ducts or stacks serving four (4) turbines (unit #s 31, 32, 41, 42) and two (2) boilers (unit #s 1, 2) as listed above in Part III, section C, as required by Rule 1158. The Auxiliary Boiler is not monitored by CEMS and is excluded from this requirement.  
[**SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]
7. Compliance determinations made for Rule 1158 compliance shall not be established based on data obtained from testing, including integrated sampling methods, during a start-up period or shut-down period of utility boilers nor during the thermal stabilization period for combined-cycle turbine units. This condition only applies to Rule 1158 compliance determinations.  
[**SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]
8. All pounds of NO<sub>x</sub> per day calculations shall be determined as the sum of the hourly mass

emissions as determined from the measured CEMS concentrations and exhaust flow rates. The hourly NO<sub>x</sub> emission concentrations measured by the CEMS shall be recorded.

**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]

9. All concentration and emission limits specified in Part II, Section “C” Conditions, for utility boilers are referenced at dry stack-gas conditions and 3.0 percent by volume stack-gas oxygen as an hourly average.

**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]

10. All concentration and emission limits specified in Part II, Section “B” Conditions, for combined-cycle turbine units shall be referenced at dry stack-gas conditions and 15.0 percent by volume stack-gas oxygen as an hourly average.

**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]

11. Owner/Operator shall maintain utility boiler and turbine operating logs on a daily basis for each permit unit. The operating logs shall include, at a minimum, the following information:

- (a) The actual start-up and stop times.
- (b) The hours of operation per day.
- (c) The hourly averaged NO<sub>x</sub> emission concentration for each permit unit.
- (d) A monthly summary of the accumulative aggregated annual pounds of NO<sub>x</sub> emissions for the facility.
- (e) The type and quantity of fuel used, including fuel sulfur content. The sulfur content of diesel/distillate fuel shall be determined by use of ASTM method D 2622-82, or (ASTM method D 2880-71, or equivalent).

*[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements] (for Periodic Monitoring Requirements, see: Part II, section A, condition 22; Part III, section A, condition 4; Part III, section B, conditions 1 and 4; Part III, section C, conditions 11 and 22; Part V, section C, condition 4; Part V, section D, condition 3; Part V, section E, condition 1; Part V, section I, conditions 2 and 3)*

**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]

**[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]**

12. Owner/Operator of any permit unit exempt pursuant to Part II, Condition C.3, shall monitor and record for each permit unit the hours of operation on diesel/distillate fuel, on a daily basis .

**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]

13. Owner/Operator of any permit units which are subject to the requirements of Part II Conditions

limiting fuel combustion and/or mass emissions [annual, daily (24hour), hourly] shall:

- (a) Shall have or install volumetric flow rate meters in each liquid fuel line ; or
- (b) Shall have or install volumetric flow rate meters in conjunction with temperature and pressure probes in each gaseous fuel line; or
- (c) Shall maintain a fuel log in the form and manner prescribed and approved by the APCO/District.

**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]

14. Owner/Operator of any permit unit subject to the requirements of Part II Emission Limit Conditions [annual, daily(24hour), hourly] shall submit and keep current an *Emissions Control Plan* approved by the District.

**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]

15. When any exemption pursuant to Part II, Condition C.3 is no longer applicable, the facility Owner/Operator shall submit an *Emissions Control Plan* to the District within 90 days following such termination of exempt status.

**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]

16. When the Annual Capacity Factor (ACF) threshold for the permit unit classification is exceeded, the permit unit shall thereafter be permitted as belonging to the next higher classification.

**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]

17. Any Compliance Testing for Utility Boilers shall be performed in accordance with the following methods:

- (a) Oxides of Nitrogen - EPA Method 7E or ARB Method 100.
- (b) Stack Gas Oxygen - EPA Method 3 or 3A or ARB Method 100
- (c) NO<sub>x</sub> Mass Emission Rate - EPA Method 19
- (d) HHV determination shall be by one of the following test methods:
  - (i) for diesel/distillate hydrocarbon fuels - ASTM D 240-87 or ASTM D 2382-88;  
or
  - (ii) for PUC quality natural gas fuels - ASTM D 1826-88, or ASTM D 1945-81 in conjunction with ASTM D 3588-89; or
  - (iii) The HHV for diesel/distillate fuels burned may also be determined by the sampling and analysis procedures of Appendix D to 40 CFR 75.

**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

18. Any Compliance Testing required for Combined-Cycle Turbine Units shall be performed in accordance with the following methods:
- (a) NO<sub>x</sub> Emissions shall be determined by EPA Test method 7E and 3A or by EPA Test Method 20.
  - (b) HHV determination shall be by one of the following test methods:
    - (i) for diesel/distillate fuels - ASTM Test Method D 240-87.
    - (ii) for distillate fuel - ASTM Test Method D 2382-88.
    - (iii) for PUC quality natural gas fuels - ASTM Test Method 3588-91; or ASTM Test Method D 1826-88; or ASTM Test Method D 1945-81; or
    - (iv) The HHV for diesel/distillate fuels burned may also be determined by the sampling and analysis procedures of Appendix D to 40 CFR 75.
- [SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]
- [Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]**
19. Electric Power Generating Equipment [Boilers & Turbines] shall demonstrate compliance with Rule 475 Particulate Matter Emission Limits through emission compliance testing as follows:
- (a) not less than once every 12 months, unless the equipment is fired exclusively on natural gas.
  - (b) Electric Power Generating Equipment fired exclusively on natural gas shall demonstrate compliance with the Particulate Matter emission limits not less than once every 60 months (5 years).
  - (c) If the Electric Power Generating Equipment is fired on diesel/distillate fuel within the 60 month period, compliance with the particulate matter emission limits shall be demonstrated when firing natural gas and when firing diesel/distillate fuel not less than once every twelve months.
  - (d) Compliance testing required by Rule 475 shall follow the administrative procedures outlined in the District's *Compliance Test Procedural Manual*. All emission determinations shall be made as stipulated in the written test protocol accepted by the District. The results from compliance testing must be developed and submitted to the District as follows:
    - (i) For Particulate Matter testing, on a five year schedule beginning with the annual permit renewal date in 1998 or on a five year schedule as otherwise specified in writing by the District, unless subject to a shorter time frame pursuant to Rule 475 (D)(1)(b), in which case results from compliance testing must be submitted on or before each annual permit renewal date or on an annual schedule as otherwise specified in writing by the District.
    - (ii) Particulate Matter emission concentrations and emission rate determinations shall be based upon the average of three (3) one-hour runs.
    - (iii) Compliance with the Particulate Matter limits shall be demonstrated using USEPA Method 5.
    - (iv) Determination of percent by volume stack-gas oxygen shall be determined using



USEPA Method 3A or USEPA Method 3.

- (e) Alternative test methods may be used upon obtaining the approval of the APCO/District, CARB and USEPA.

**[SIP Pending:** Rule 475 - *Electric Power Generating Equipment* as adopted 08/25/97 and submitted 03/10/98]

- 20. Electric Power Generating Equipment [Boilers & Turbines] shall demonstrate compliance with Rule 1158 NO<sub>x</sub> Emission Limits [concentration and/or mass] through emission compliance testing as follows:

- (a) Electric Power Generating Equipment fired exclusively on natural gas shall demonstrate compliance with the NO<sub>x</sub> emission limits at the same time compliance with Particulate Matter emission limits are established but not less than once every 60 months (5 years).
- (b) If the Electric Power Generating Equipment is fired on diesel/distillate fuel within the 60 month period, compliance with the NO<sub>x</sub> and Particulate Matter emission limits shall be demonstrated when firing natural gas and when firing diesel/distillate fuel not less than once every twelve months.
- (c) Compliance with the NO<sub>x</sub> emission limits (conditions 20(a) and 20(b), above) may be established, with District written concurrence, by the use of NO<sub>x</sub> - Relative Accuracy Test Audits (RATA) performed on an annual basis, (duplication of tests and testing cost is not required ).

[ 40 CFR 70.6(a)(1) - Periodic Monitoring Requirements ] ( for Periodic Monitoring Requirements, see Part III(A)(3); and, Parts III(C)(1, 2, 3, 4, 5) of this permit )

**[SIP Pending:** Rule 475 - *Electric Power Generating Equipment* as adopted 08/25/97 and submitted 03/10/98]

**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]

- 21. Certification of the higher heating value of a fuel, if not provided by a third party fuel supplier, shall be determined by one of the following methods:

- (a) ASTM Test Method D240-87 or D2382-88 for diesel/distillate hydrocarbon fuels.
- (b) ASTM Test Method D1826-88, or D1945-81, in conjunction with ASTM D3588-89 for PUC quality natural gas fuels.

**[SIP Pending:** Rule 475 - *Electric Power Generating Equipment* as adopted 08/25/97 and submitted 03/10/98]

- 22. Owner/Operator shall not burn any PUC quality natural gas fuel at this facility containing sulfur compounds in excess of 800 ppm calculated as hydrogen sulfide at standard conditions, or any diesel/distillate fuel having a sulfur content in excess of 0.5 percent by weight. Compliance with Rule 431 sulfur limit for PUC quality natural gas fuel shall be by the exclusive use of utility grade/pipeline quality natural gas. Records of natural gas supplier fuel quality/sulfur content limit shall be kept on-site for review by District, state or federal persons at any time. Compliance with Rule 431 sulfur limit for diesel/distillate fuel shall be determined by keeping records of the diesel/distillate fuel supplier's fuel analysis guarantee showing fuel sulfur content. The sulfur

content of diesel/distillate fuel shall be determined by use of ASTM method D 2622-82, or (ASTM method D 2880-71, or equivalent).

*[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements] (for Periodic Monitoring Requirements, see: Part II, section A, condition 22; Part III, section A, condition 4; Part III, section B, conditions 1 and 4; Part III, section C, conditions 11 and 22; Part V, section C, condition 4; Part V, section D, condition 3; Part V, section E, condition 1; Part V, section I, conditions 2 and 3)*

*[Rule 431 - Sulfur Content of Fuels; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 - 43 FR 40011; Current Rule Version = 07/25/77]*

23. Stack and point source visible emissions from this facility, of any air contaminant (including smoke) into the atmosphere, shall not equal or exceed Ringelmann No. 1 for a period or periods aggregating more than three minutes in any one hour:

- a. While any unit [including turbines] is fired on Public Utilities Commission grade natural gas, Periodic Monitoring is not required to validate compliance with the Rule 401 Visible Emissions limit. However, the Owner/Operator shall comply with the recordkeeping requirements stipulated elsewhere in this permit regarding the logging of fuel type, amount and suppliers certification information.
- b. While any unit [excluding turbines] is fired on diesel / distillate fuel Periodic Monitoring, in addition to required recordkeeping, is required to validate compliance with Rule 401 Visible Emissions limit. A visible emissions inspection is required after every one (1) million gallons of fuel is combusted. Fuel consumption is to be counted cumulatively over a 5 year period. If a visible emissions inspection documents opacity, a Method 9 "Visible Emissions Evaluation" shall be completed within 3 working days, or during the next scheduled operating period if the unit ceases firing on diesel / distillate within the 3 working day time frame.
- c. While any turbine is fired on diesel / distillate fuel Periodic Monitoring, in addition to required recordkeeping, is required to validate compliance with the Rule 401 Visible Emissions limit. A visible emissions inspection is required after every 400 cumulative hours of operation on diesel / distillate fuel. If a visible emissions inspection documents opacity, a Method 9 "Visible Emissions Evaluation" shall be completed within 3 working days, or during the next scheduled operating period if the unit ceases firing on diesel / distillate within the 3 working day time frame. This requirement shall also apply to diesel/distillate fuel firing during training/testing periods.

*[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements] (for Periodic Monitoring Requirements, see: Part II, section A, condition 12; Part III, section C, condition 23; Part V, section C, condition 6; Part V, section D, condition 1, Part V, section E, condition 4)*

*[Rule 401 - Visible Emissions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]*

*[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]*

D. EQUIPMENT SPECIFIC MONITORING, RECORDKEEPING, REPORTING AND TESTING REQUIREMENTS

APPLICABLE TO PAINT SPRAY BOOTH, MDAQMD PERMIT NUMBER S000736:

1. Owner/Operator subject to Part II, Conditions F.14, F.15, F.17(b), F.17(c), and F.20 shall comply with the following requirements:
  - (a) Owner/Operator shall maintain and have available during an inspection, a current list of coatings in use which provides all of the coating data necessary to evaluate compliance, including the following information, as applicable:
    1. coating, catalyst, and reducer used.
    2. mix ratio of components used.
    3. VOC content of coating as applied.
    4. quantity of Group II exempt compounds used.
  - (b) Owner/Operator shall maintain records on a daily basis including:
    1. coating and mix ratio of components used in the coating; and
    2. quantity of each coating applied.
  - (c) Owner/Operator shall maintain records on a daily basis showing the type and amount of solvent used for cleanup, surface preparation, and paint removal.
  - (d) Records shall be retained and available for inspection by the District for the previous 5 year period as required by Title V program.  
[Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(244)(i)(C)(1) - 08/18/98 63 FR 44132]  
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)].
2. A violation of the limits contained in Part II, Conditions F.1 through F.22 as determined by any one of any Part III listed *Reference Method Tests* shall constitute a violation of applicable Part II conditions.  
[Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(244)(i)(C)(1) - 08/18/98 63 FR 44132]  
[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
3. The following specified *Reference Method Tests* shall be used to determine compliance with the provisions of Part II, Conditions F.1 through F.13:
  - (a) Samples of coatings and solvent as specified in Part II, Conditions F.1 through F.13 shall be analyzed as prescribed by EPA Reference Method 24 for VOC content (without correction for exempt compounds) and ASTM D4457-85, or ARB Method 432 for determination of emissions of exempt compounds. Perfluorocarbon compounds shall be assumed to be absent from a product or process unless a manufacturer or facility Owner/Operator identifies the specific individual compounds (from the broad classes of perfluorocarbon compounds) and the amounts present in the product or process and provides a validated test method which can be used to quantify the specific compounds.
  - (b) Emissions of volatile organic compounds as specified in Part II, Conditions F.1 through F.13 shall be measured as prescribed by EPA Reference Method 25 for determination of VOC emissions (without correction for exempt compounds) and EPA Method 18, or ARB Method 422 for measuring emission of exempt compounds.

- (c) Transfer efficiency as required by Part II, Conditions F.1 through F.13 shall be determined by *South Coast Air Quality Management District Spray Equipment Transfer Efficiency Test Procedure for Equipment User, May 24, 1989*.
- (d) Overall abatement efficiency is the product of capture efficiency as determined by procedures described in *55 FR 26865, 29 June, 1990*, and abatement device efficiency.

[Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(244)(i)(C)(1) - 08/18/98 63 FR 44132]

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for *Periodic Monitoring Requirements, see Part III, section D, conditions 3,4,5 and 6*)

4. The following specified *Reference Method Tests* shall be used to determine applicable parameters as required by Rule 1115:

- (a) The VOC content of coatings and solvents, as specified in subsections (C)(2) and (C)(4)(c)(i), shall be analyzed as prescribed by USEPA Reference Method 24 for VOC content (without correction for exempt compounds) and ASTM D4457-85, or CARB Method 432, for determination of emissions of exempt compounds. Perfluorocarbon compounds shall be assumed to be absent from a product or process unless a manufacturer or facility operator identifies the specific individual compounds (from the broad classes of perfluorocarbon compounds) and the amounts present in the product or process and provides a validated test method which can be used to quantify the specific compounds.
- (b) Determination of the initial boiling point of liquid containing VOC, subject to subsection (C)(4)(c)(ii), shall be conducted in accordance with ASTM D1078-86.
- (c) Calculation of total VOC vapor pressure for materials subject to subsection (C)(4)(c)(iii) shall be conducted in accordance with ASTM D2879-86. The fraction of water and exempt compounds in the liquid phase shall be determined by using ASTM D3792-91 and D4457-85 and shall be used to calculate the partial pressure of water and exempt compounds. The results of vapor pressure measurements obtained using ASTM D2879-86 shall be corrected for partial pressure of water and exempt compounds.
- (d) Measurement of solvent losses from alternative application cleaning equipment subject to (C)(4)(b)(iii) shall be conducted in accordance with the South Coast Air Quality Management District's "General Test Method for Determining Solvent Losses from Spray Gun Cleaning Systems" (11/1/94).
- (e) Measurement of acid content of a substance shall be determined by ASTM D1613-85.
- (f) Measurement of metal content of coatings shall be determined in accordance with South Coast Air Quality Management District's "Laboratory Methods of Analysis for Enforcement Samples" manual, "Determination of Percent Metal in Metallic Coatings by Spectrographic Method, Method 311".
- (g) Capture Efficiency shall be determined according to USEPA's technical document, "Guidelines for Determining Capture Efficiency" (1/9/95).
- (h) The control efficiency of the Control Device shall be determined according to USEPA Test Methods 25, 25A or 25B for measuring the total gaseous organic concentrations at the inlet and outlet of the emissions Control Device, as contained in 40 CFR Part 60, Appendix A. USEPA Test Method 18 or CARB Method 422 shall be used to determine

- emissions of exempt compounds.
- (i) Measurement of solids content by weight of a substance shall be conducted in accordance with ASTM D1475-60.
  - (j) Alternative test methods may be used upon obtaining the approval of the APCO, CARB and USEPA.
  - (k) Demonstration of Transfer Efficiency of alternative application methods subject to subsection (C)(1)(a)(v) shall be conducted in accordance with South Coast Air Quality Management District's "Spray Equipment Transfer Efficiency Test Procedure for Equipment User" (5/24/89).
- [Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements* ] ( for *Periodic Monitoring Requirements, see Part III, section D, conditions 3,4,5 and 6*)
5. Owner/Operator shall obtain, and maintain records from the coating/paint manufacturer regarding the VOC content of the coating/paint and any solvents contained therein.  
[Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(244)(i)(C)(1) - 08/18/98 63 FR 44132]  
[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements* ] ( for *Periodic Monitoring Requirements, see Part III, section D, conditions 3,4,5 and 6*)
6. The Owner/Operator of any facility electing to engage in the mixing of coatings/ paints or solvents shall be required to obtain and maintain an analysis of the mixture from an independent testing laboratory.  
[Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(244)(i)(C)(1) - 08/18/98 63 FR 44132]  
[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements* ] ( for *Periodic Monitoring Requirements, see Part III, section D, conditions 3,4,5 and 6*)
- E. EQUIPMENT SPECIFIC MONITORING, RECORDKEEPING, REPORTING AND TESTING REQUIREMENTS APPLICABLE TO MDAQMD PERMIT NUMBER N001424, GASOLINE DISPENSING FACILITY (NON-RETAIL):
1. Owner/Operator shall maintain a log of all inspections, repairs, and maintenance on equipment subject to Rule 461 listed in Part II, Conditions G.1 through G.10. In addition, Owner/Operator shall maintain a leak inspection log containing, at a minimum, the following: inspector's name, location and description of component type where any leak is found; date of leak detection, emission level (ppm) if applicable, and date leak is repaired. Such logs or records shall be

maintained at the facility for a minimum of 5 years from the date the records were created and shall be made available to District, state or federal personnel upon request.

[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)].

[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]

[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] ( *for Periodic Monitoring Requirements; see Part III, section E, conditions 1, 2, 3, 4; Part V, section H, conditions 1 through 7*))

2. Owner/Operator shall maintain a daily log of product throughput for gasoline dispensing facility.  
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] ( *for Periodic Monitoring Requirements; see Part III, section E, conditions 1, 2, 3, 4; Part V, section H, conditions 1 through 7*))
3. Any violation determined by any one of the following listed *Reference Method Tests* shall constitute a violation of the Part II, Conditions G.1 through G.10:
  - (a) Vapor recovery system and gasoline dispensing equipment shall be maintained leak-free as verified performing annual EPA Method 21 tests and monthly visual inspections. Vapor Tightness (Fugitive Vapor Leaks) for all equipment described in Part II, Condition G.2.(c) shall be determined by EPA Method 21 - *Determination of Volatile Organic Compounds Leaks*.
  - (b) Vapor Recovery System Efficiency for Delivery Vessels shall be determined by the EPA Method entitled, *Control of Organic Compound Leaks from Gasoline Tank Trucks and Vapor Collection Systems* (method specified in the CTG EPA-450/2-78-051), or the CARB Method entitled, *Certification and Test Procedures for Vapor Recovery Systems of Gasoline Delivery Tanks*.
  - (c) Reid Vapor Pressure shall be determined in accordance with ASTM Method D 323-82.
  - (d) Vapor Recovery System Efficiency for Bulk Plants shall be determined by CARB Method 202, "*Certification of Vapor Recovery Systems - Bulk Plants*".
  - (e) Vapor Recovery System Efficiency for Terminals shall be determined by CARB Method 203, "*Certification of Vapor Recovery Systems - Gasoline Terminals*".
  - (f) Vapor Recovery System Efficiency for Service Stations shall be determined by the CARB Methods in "*Test Procedures for Determining the Efficiency of Gasoline Vapor Recovery Systems at Service Stations*".

[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] ( *for Periodic Monitoring Requirements; see Part III, section E, conditions 1, 2, 3, 4; Part V, section H, conditions 1 through 7*))

4. Compliance with the requirement of the Phase II system to be 95 % effective for the recovery of displaced vapors is considered to be demonstrated by performing annual EPA Method 21 tests and monthly visual inspections, including maintaining equipment as specified in the applicable ARB Executive Order certifying the system and conditions listed in Part II, Conditions G.1 through G.10. A leak is defined as the dripping at a rate of more than three (3) drops per minute of liquid containing VOCs or a reading as methane in excess of 10,000 ppm as determined using EPA Method 21.  
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for *Periodic Monitoring Requirements*; see Part III, section E, conditions 1, 2, 3, 4; Part V, section H, conditions 1 through 7)
- F. EQUIPMENT SPECIFIC MONITORING, RECORDKEEPING, REPORTING AND TESTING REQUIREMENTS APPLICABLE TO MDAQMD PERMIT NUMBER T001100, STORAGE TANK # 1; A FIXED ROOF STORAGE TANK WITH DIMENSIONS OF 100 FEET DIAMETER AND 43 FEET HIGH WITH A TOTAL VOLUME OF 2.52 MILLION GALLONS:
  1. Owner/Operator shall maintain a log of all inspections, repairs, and maintenance on equipment subject to Part II, section "H" conditions. Such logs or records shall be maintained at the facility and shall be made available to the MDAQMD upon request. Any records required to be generated and/or kept by any portion of this permit shall be retained by the Owner/Operator for at least five (5) years from the date the records were created.  
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)].  
[Rule 462 - *Organic Liquid Loading*; Version in SIP = Current, CFR citing unknown]  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for *Periodic Monitoring Requirements*; see Part III, section F, conditions 1 through 11; Part V, section I, conditions 1, 2, 3)
  2. Owner/Operator of facility shall maintain a log for tank described in Part II, section "H" conditions and Part III, section "F" conditions, showing the daily:
    - (a) input.
    - (b) output.
    - (c) average stored volume over the 24 hour period (midnight to midnight).
    - (d) storage and transfer temperatures of the organic liquid.
    - (e) stored product's name and Chemical Abstracts Service (CAS) number.
    - (f) a monthly summary of the throughput for the calendar year to date.  
[Rule 462 - *Organic Liquid Loading*; Version in SIP = Current, CFR citing unknown]  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for *Periodic Monitoring Requirements*; see Part III, section F, conditions 1 through 11; Part V, section I, conditions 1, 2, 3)
  3. Vapor leaks from dome covers, pressure vacuum vents or other sources shall be determined in

accordance with EPA Method 21.

[Rule 462 - *Organic Liquid Loading*; Version in SIP = Current, CFR citing unknown]  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for *Periodic Monitoring Requirements*; see Part III, section F, conditions 1 through 11; Part V, section I, conditions 1, 2, 3)

4. Owner/Operator shall keep an accurate record of liquids stored in tank and the true vapor pressure ranges of such liquids, or other criteria approved by the District.  
[Rule 463 - *Storage of Organic Liquid*; Version in SIP = Current, CFR citing unknown]  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for *Periodic Monitoring Requirements*; see Part III, section F, conditions 1 through 11; Part V, section I, conditions 1, 2, 3)
5. Organic liquids listed Part III, section “F”, condition 9, shall be deemed to be in compliance with the appropriate vapor pressure limits for the tank in which it is stored provided the actual storage temperature does not exceed the corresponding maximum temperature listed.  
[Rule 463 - *Storage of Organic Liquid*; Version in SIP = Current, CFR citing unknown]  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for *Periodic Monitoring Requirements*; see Part III, section F, conditions 1 through 11; Part V, section I, conditions 1, 2, 3)
6. Owner/Operator shall maintain a log of all inspections, repairs and maintenance on equipment subject to this permit. Such logs or records shall be maintained at the facility and shall be made available to the MDAQMD upon request. Any records required to be generated and/or kept by any portion of this permit shall be retained by the Owner/Operator for at least five (5) years from the date the records were created.  
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)].  
[Rule 463 - *Storage of Organic Liquid*; Version in SIP = Current, CFR citing unknown]  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for *Periodic Monitoring Requirements*; see Part III, section F, conditions 1 through 11; Part V, section I, conditions 1, 2, 3)
7. Vapor Pressure shall be determined in accordance with ASTM Method D 323-82, or the unmodified Reid Method and the true vapor pressure in psi absolute of stored liquid shall be determined by using the nomographs contained in American Petroleum Institute Bulletin 2517 for conversion of Reid vapor pressure to true vapor pressure.  
[Rule 463 - *Storage of Organic Liquid*; Version in SIP = Current, CFR citing unknown]  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for *Periodic Monitoring Requirements*; see Part III, section F, conditions 1 through 11; Part V, section I, conditions 1, 2, 3)
8. Vapor Tightness (Fugitive Vapor Leaks) for all equipment described in Part II, section “H” conditions, shall be determined by EPA Method 21 - *Determination of Volatile Organic Compounds Leaks*.



[Rule 463 - *Storage of Organic Liquid*; Version in SIP = Current, CFR citing unknown]  
 [40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for *Periodic Monitoring Requirements*; see Part III, section F, conditions 1 through 11; Part V, section I, conditions 1, 2, 3)

9. Diesel / Distillate fuel stored shall comply with the following Rule 463 limit:

MOJAVE DESERT  
 AIR QUALITY MANAGEMENT DISTRICT  
 RULE 463 - ADDENDUM  
 STORAGE TEMPERATURES vs. ACTUAL VAPOR PRESSURE  
 (gravity/initial boiling points referenced)

Reference Property		Temperature, °F	
A - °API		Not to Exceed Vapor Pressure	
B - IBP, °F		0.5 psia	1.5 psia
<u>Organic Liquids</u>	<u>A</u>	<u>B</u>	
<u>Middle Distillates</u>			
Diesel	36.4	372 °F	230 °F 290 °F

[Rule 463 - *Storage of Organic Liquid*; Version in SIP = Current, CFR citing unknown]  
 [40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for *Periodic Monitoring Requirements*; see Part III, section F, conditions 1 through 11; Part V, section I, conditions 1, 2, 3)

10. “Fugitive Liquid Leak” means the dripping of a liquid at a rate exceeding three (3) drops per minute. “Fugitive Vapor Leak” (vapor tightness) means the detection of less than 10,000 ppm, as methane, using an appropriate hydrocarbon analyzer when sampling is performed according to the procedures specified in EPA Method 21. Annual visual inspections and yearly spot checks with an appropriate hydrocarbon analyzer according to EPA Method 21 shall be required to demonstrate compliance with “Fugitive Liquid Leak” and “Fugitive Vapor Leak” (vapor tightness) specified in this condition.

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for *Periodic Monitoring Requirements*, see: Part III, section “F”, condition 10)

[Rule 462 - *Organic Liquid Loading*; Version in SIP = Current, CFR citing unknown]

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

[MDAQMD Title V Program, MDAQMD Rules 1200 through 1210 (Regulation XII - *Federal Operating Permits*); Applicable via Title V Program interim approval 02/05/96 61 FR 4217]

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for *Periodic Monitoring Requirements*; see Part III, section F, conditions 1 through 11; Part V, section I, conditions 1, 2, 3)

11. Any records required to be generated and/or kept by any portion of this Federal Operating Permit shall be retained on-site by the Owner/Operator for at least five (5) years from the date the records

were created.

[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (*for Periodic Monitoring Requirements; see Part III, section F, conditions 1 through 11; Part V, section I, conditions 1,2,3*)

## PART IV

### STANDARD FEDERAL OPERATING PERMIT CONDITIONS

A. STANDARD CONDITIONS:

1. If any portion of this Federal Operating Permit is found to be invalid by the final decision of a court of competent jurisdiction the remaining portion(s) of this Federal Operating Permit shall not be affected thereby.  
[40 CFR 70.6(a)(5); Rule 1203(D)(1)(f)(i)]
2. The Owner/Operator shall comply with all condition(s) contained herein. Noncompliance with any condition(s) contained herein constitutes a violation of the Federal Clean Air Act and of MDAQMD Regulation XII and is grounds for enforcement action; termination, revocation and re-issuance, or modification of this Federal Operating Permit; and/or grounds for denial of a renewal of this Federal Operating Permit.  
[40 CFR 70.6(a)(6)(i); Rule 1203(D)(1)(f)(ii)]
3. It shall not be a defense in an enforcement action brought for violation(s) of condition(s) contained in this Federal Operating Permit that it would have been necessary to halt or reduce activity to maintain compliance with those condition(s).  
[40 CFR 70.6(a)(6)(ii); Rule 1203(D)(1)(f)(iii)]
4. This Federal Operating Permit may be modified, revoked, reopened or terminated for cause.  
[40 CFR 70.6(a)(6)(iii); Rule 1203(D)(1)(f)(iv)]
5. The filing of an application for modification; a request for revocation and re-issuance; a request for termination; notifications of planned changes; or anticipated noncompliance with condition(s) does not stay the operation of any condition contained in this Federal Operating Permit.  
[40 CFR 70.6(a)(6)(iii); Rule 1203(D)(1)(f)(v)]
6. The issuance of this Federal Operating Permit does not convey any property rights of any sort nor does it convey any exclusive privilege.  
[40 CFR 70.6(a)(6)(iv); Rule 1203(D)(1)(f)(vi)]
7. The Owner/Operator shall furnish to the MDAQMD, within a reasonable time as specified by the MDAQMD, any information that the MDAQMD may request in writing.  
[40 CFR 70.6(a)(6)(v); Rule 1203(D)(1)(f)(vii)]
8. The Owner/Operator shall furnish to the District, upon request by the District, copies of any records required to be kept pursuant to condition(s) of this Federal Operating Permit.  
[40 CFR 70.6(a)(6)(v); Rule 1203(D)(1)(f)(viii)]
9. Any records required to be generated and/or kept by any portion of this Federal Operating Permit

shall be retained by the facility Owner/Operator for at least five (5) years from the date the records were created.

[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]

10. The Owner/Operator shall pay all applicable fees as specified in MDAQMD Regulation III, including those fees related to permits as set forth in Rules 301 and 312.  
[40 CFR 70.6(a)(7); Rule 1203(D)(1)(f)(ix)]
11. The Owner/Operator shall not be required to revise this permit for approved economic incentives, marketable permits, emissions trading or other similar programs provided for in this permit.  
[40 CFR 70.6(a)(8); Rule 1203(D)(1)(f)(x)]
12. Compliance with condition(s) contained in this Federal Operating Permit shall be deemed compliance with the Applicable Requirement underlying such condition(s).  
[40 CFR 70.6(f)(1); Rule 1203(G)(1)]
13. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit the emergency powers of USEPA as set forth in 42 U.S.C. §7603.  
[40 CFR 70.6(f)(3)(i); Rule 1203(G)(3)(a)]
14. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit liability for violations which occurred prior to the issuance of this Federal Operating Permit.  
[40 CFR 70.6(f)(3)(ii); Rule 1203(G)(3)(b)]
15. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to alter any Applicable Requirement Contained in the Acid Rain Program.  
[40 CFR 70.6(f)(3)(iii); Rule 1203(G)(3)(c)]
16. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit the ability of USEPA or the MDAQMD to obtain information pursuant to other provisions of law including but not limited to 42 U.S.C. §7414.  
[40 CFR 70.6(f)(3)(iv); Rule 1203(G)(3)(d)]
17. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to apply to emissions trading pursuant to provisions contained in an applicable State Implementation Plan.  
[40 CFR 70.4(b)(12)(ii)(B); Rule 1203(G)(3)(e)]
18. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to apply to changes made which are not expressly allowed by this Federal Operating Permit.  
[40 CFR 70.4(b)(14)(iii); Rule 1203(G)(3)(f)]
19. The Permit Shield set forth in Part IV, condition 12, shall not be construed to apply to changes made pursuant to the Significant Permit Modification provisions until such changes are included in

this Federal Operating Permit.

[40 CFR 70.5(a)(1)(ii), 70.7(e)(2)(vi); Rule 1203 (G)(3)(g)]

20. If the Owner/Operator performs maintenance on, or services, repairs, or disposes of appliances, the Owner/Operator shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. These requirements are Federally Enforceable through this Title V Permit.  
[40 CFR Part 82, Subpart F]
21. If the Owner/Operator performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the Owner/Operator shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. These requirements are Federally Enforceable through this Title V Permit.  
[40 CFR Part 82, Subpart B]
22. Notwithstanding the testing requirements contained elsewhere in this Title V Permit, any credible evidence may be used to establish violations, including but not limited to; reference test methods, engineering calculations, indirect estimates of emissions, CEMS data, and parametric monitoring data. Data need not be required to be collected in a Title V permit in order to be considered credible.  
[Section 113(a) of the Clean Air Act]

## PART V COMPLIANCE CONDITIONS

### A. STANDARD COMPLIANCE CONDITIONS:

1. The Owner/Operator shall allow an authorized representative of the MDAQMD to enter upon the permit holder's premises at reasonable times, with or without notice.  
[40 CFR 70.6(c)(2)(i); Rule 1203(D)(1)(g)(i)]
2. The Owner/Operator shall allow an authorized representative of the MDAQMD to have access to and copy any records that must be kept under condition(s) of this Federal Operating Permit.  
[40 CFR 70.6(c)(2)(ii); Rule 1203(D)(1)(g)(ii)]
3. The Owner/Operator shall allow an authorized representative of the MDAQMD to inspect any equipment, practice or operation contained in or required under this Federal Operating Permit.  
[40 CFR 70.6(c)(2)(iii); Rule 1203(D)(1)(g)(iii)]
4. The Owner/Operator shall allow an authorized representative of the MDAQMD to sample and/or otherwise monitor substances or parameters for the purpose of assuring compliance with this Federal Operating Permit or with any Applicable Requirement.  
[40 CFR 70.6(c)(2)(iv); Rule 1203(D)(1)(g)(iv)]
5. If the Owner/Operator is operating pursuant to a Schedule of Compliance contained herein then the Owner/Operator shall submit a Progress Report regarding that Schedule of Compliance on a semiannual [6 month] basis unless a shorter time is set forth in the Schedule of Compliance itself.  
[40 CFR 70.6(c)(5)(i); Rule 1203(D)(1)(g)(vi)]
6. The Owner/Operator shall submit Compliance Certifications on an annual basis as prescribed by Rule 1203(F)(1).  
[40 CFR 70.6(c)(5)(i); Rule 1203(D)(1)(g)(vii); Rule 1203(F)(1)]
7. The Owner/Operator shall include in any Compliance Certification the methods used for monitoring such compliance.  
[40 CFR 70.6(c)(5)(ii); Rule 1203(D)(1)(g)(viii)]
8. The Owner/Operator when submitting any Compliance Certification(s) to the MDAQMD, shall contemporaneously submit such Compliance Certification(s) to USEPA.  
[40 CFR 70.6(5)(iii); Rule 1203(D)(g)(ix)]

### B. SPECIFIC COMPLIANCE CONDITIONS FOR INDUCED FLUE GAS RECIRCULATION SYSTEM (IFGR) ADDED TO BOILER #1 [Permit # B001077] AND BOILER # 2 [Permit # B001078]:

1. Owner/Operator, shall notify the MDAQMD in writing, within 10 working days of each of the following: a). Commencement of construction of the Induced Flue Gas Re-circulation System (IFGR); b). Commencement of start-up of the unit with the newly constructed IFGR in use; c). Commencement of start-up of the unit with the newly installed IFGR for electricity generation supplied to the grid.  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]  
[40 CFR 70.6(a)(6)(i); Rule 1203(D)(1)(f)(ii)]
2. Within 180 days of Part V, Condition B.1(c), above, the Owner/Operator shall conduct emissions testing defined by a previously District accepted test protocol. Emissions shall be determined both with and without the IFGR in operation. Emissions to be determined shall not be less than carbon monoxide, oxides of nitrogen, moisture, carbon dioxide, oxygen, nitrogen (and atmospheric inerts included). The final report shall be forwarded to the MDAQMD no later than 45 days subsequent to the last day of on-site sample collections and/or measurements. All methods of sampling and analyses shall be those of USEPA.  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]  
[40 CFR 70.6(a)(6)(i); Rule 1203(D)(1)(f)(ii)][**SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]
3. Owner/Operator shall comply with all the applicable portions of Rule 1158 which pertains to the operation of Electric Power Generating Facilities.  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]  
[40 CFR 70.6(a)(6)(i); Rule 1203(D)(1)(f)(ii)]  
[**SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]

C. SPECIFIC COMPLIANCE CONDITIONS FOR POWER GENERATING TURBINES:

MDAQMD Permit # B001079, Unit # 31, 73 MW Turbine  
MDAQMD Permit # B001080, Unit # 32, 73 MW Turbine  
MDAQMD Permit # B001081, Unit # 41, 73 MW Turbine  
MDAQMD Permit # B001082, Unit # 42, 73 MW Turbine

1. Water injection is required at all Combustion Turbine loads in excess of 20 MW(e) net, at a rate which has been demonstrated to limit NO<sub>x</sub> emissions to less than 42 parts per million by volume (ppmv) at 15% O<sub>2</sub> when using Natural Gas fuel and 65 ppmv at 15% O<sub>2</sub> when using distillate fuel, in accordance with Rule 1158. The water injection range varies with the turbine load between “0” gallons per minute and “100” gallons per minute for each turbine being operated.  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR

52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]

2. Turbine load, fuel, and water injection rates shall be continuously monitored and recorded every fifteen (15) minutes. All load changes should be made with water injection. Operating data shall be continuously monitored to verify conditions. Quarterly emission exceedances and fuel usage reports shall be submitted to the MDAQMD.  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]  
**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]
3. Blade path temperature maintenance tests are allowed to be conducted once per month for a period not to exceed two (2) hours without water injection. The MDAQMD shall be notified by telephone prior to the start and at the completion of each test. Facility must comply with the emission limitations contained elsewhere in this Federal Operating Permit when water injection system is “turned off” for testing.  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]  
**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]
4. Sulfur content of the diesel / distillate fuel used for combustion in Coolwater Generating Station Turbines shall not exceed 0.50 % sulfur by weight. The sulfur content of diesel/distillate fuel shall be determined by use of ASTM method D 2622-82, or (ASTM method D 2880-71, or equivalent).  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for *Periodic Monitoring Requirements*, see: Part II, section A, condition 22; Part III, section A, condition 4; Part III, section B, conditions 1 and 4; Part III, section C, conditions 11 and 22; Part V, section C, condition 4; Part V, section D, condition 3; Part V, section E, condition 1; Part V, section I, conditions 2 and 3)  
[Rule 431 - *Sulfur Content of Fuels*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 - 43 FR 40011; Current Rule Version = 07/25/77]  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
5. Combined Cycle Turbines and Boilers shall comply with all applicable requirements of Rule 1158 including the “Aggregated Annual NO<sub>x</sub> Emissions Cap” for entire facility listed in Part II, Conditions B.2 and C.2 of this Federal Operating Permit. A monthly summary of the accumulative aggregated annual pounds of NO<sub>x</sub> emissions for the facility demonstrating compliance with this requirement shall be included as a part of the Annual Compliance Certification by the “Responsible Official” for Coolwater Generating Station.  
**[SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]  
[40 CFR 70.6(c)(5)(i); Rule 1203(D)(1)(g)(vii); Rule 1203(F)(1)]



6. Stack and point source visible emissions from this facility, of any air contaminant (including smoke) into the atmosphere, shall not equal or exceed Ringelmann No. 1 for a period or periods aggregating more than three minutes in any one hour:
- a. While any unit [including turbines] is fired on Public Utilities Commission grade natural gas, Periodic Monitoring is not required to validate compliance with the Rule 401 Visible Emissions limit. However, the Owner/Operator shall comply with the recordkeeping requirements stipulated elsewhere in this permit regarding the logging of fuel type, amount and suppliers certification information.
  - b. While any unit [excluding turbines] is fired on diesel / distillate fuel Periodic Monitoring, in addition to required recordkeeping, is required to validate compliance with Rule 401 Visible Emissions limit. A visible emissions inspection is required after every one (1) million gallons of fuel is combusted. Fuel consumption is to be counted cumulatively over a 5 year period. If a visible emissions inspection documents opacity, a Method 9 "Visible Emissions Evaluation" shall be completed within 3 working days, or during the next scheduled operating period if the unit ceases firing on diesel / distillate within the 3 working day time frame.
  - c. While any turbine is fired on diesel / distillate fuel Periodic Monitoring, in addition to required recordkeeping, is required to validate compliance with the Rule 401 Visible Emissions limit. A visible emissions inspection is required after every 400 cumulative hours of operation on diesel / distillate fuel. If a visible emissions inspection documents opacity, a Method 9 "Visible Emissions Evaluation" shall be completed within 3 working days, or during the next scheduled operating period if the unit ceases firing on diesel / distillate within the 3 working day time frame. This requirement shall also apply to diesel/distillate fuel firing during training/testing periods.
- [40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements] (for Periodic Monitoring Requirements, see: Part II, section A, condition 12; Part III, section C, condition 23; Part V, section C, condition 6; Part V, section D, condition 1, Part V, section E, condition 4)  
[Rule 401 - *Visible Emissions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
7. *Pursuant to EPA Objection, Owner/Operator of Coolwater Generating Station will be required to demonstrate that boilers and turbines combusting diesel/distillate fuels comply with the applicable emission limits specified in MDAQMD Rules; 406, 407, 409, 475, and 1158 before being allowed to burn these liquid fuels on a routine basis. In addition, Periodic Monitoring will be required in the form of annual compliance certification exhaust stack source testing, if units are fired on diesel/distillate during any period of operation in a given year. If the time period between combusting diesel/distillate is to exceed one year then compliance source testing must be performed at the time of re-firing on diesel/distillate. Any proposed exhaust stack source testing must receive advance written approval by the MDAQMD and be witnessed by the MDAQMD in order to be considered valid for compliance demonstration purposes.*
- [40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]  
[1203 (D)(1)(f)(ii)]

D. SPECIFIC COMPLIANCE CONDITIONS FOR UTILITY BOILERS:

MDAQMD Permit # B001077, Unit # 1, 64 MW Boiler

MDAQMD Permit # B001078, Unit # 2, 75 MW Boiler

1. Stack and point source visible emissions from this facility, of any air contaminant (including smoke) into the atmosphere, shall not equal or exceed Ringelmann No. 1 for a period or periods aggregating more than three minutes in any one hour:
  - a. While any unit [including turbines] is fired on Public Utilities Commission grade natural gas, Periodic Monitoring is not required to validate compliance with the Rule 401 Visible Emissions limit. However, the Owner/Operator shall comply with the recordkeeping requirements stipulated elsewhere in this permit regarding the logging of fuel type, amount and suppliers certification information.
  - b. While any unit [excluding turbines] is fired on diesel / distillate fuel Periodic Monitoring, in addition to required recordkeeping, is required to validate compliance with Rule 401 Visible Emissions limit. A visible emissions inspection is required after every one (1) million gallons of fuel is combusted. Fuel consumption is to be counted cumulatively over a 5 year period. If a visible emissions inspection documents opacity, a Method 9 “Visible Emissions Evaluation” shall be completed within 3 working days, or during the next scheduled operating period if the unit ceases firing on diesel / distillate within the 3 working day time frame.
  - c. While any turbine is fired on diesel / distillate fuel Periodic Monitoring, in addition to required recordkeeping, is required to validate compliance with the Rule 401 Visible Emissions limit. A visible emissions inspection is required after every 400 cumulative hours of operation on diesel / distillate fuel. If a visible emissions inspection documents opacity, a Method 9 “Visible Emissions Evaluation” shall be completed within 3 working days, or during the next scheduled operating period if the unit ceases firing on diesel / distillate within the 3 working day time frame. This requirement shall also apply to diesel/distillate fuel firing during training/testing periods.  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for *Periodic Monitoring Requirements*, see: *Part II, section A, condition 12; Part III, section C, condition 23; Part V, section C, condition 6; Part V, section D, condition 1, Part V, section E, condition 4*)  
[Rule 401 - *Visible Emissions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
2. Combined Cycle Turbines and Utility Boilers shall comply with all applicable requirements of Rule 1158 including the “Aggregated Annual NO<sub>x</sub> Emissions Cap” for entire facility listed in Part

II, Conditions B.2 and C.2 of this Federal Operating Permit. A monthly summary of the accumulative aggregated annual pounds of NO<sub>x</sub> emissions for the facility demonstrating compliance with this requirement shall be included as a part of the Annual Compliance Certification by the "Responsible Official" for Coolwater Generating Station.

[**SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]  
[40 CFR 70.6(c)(5)(i); Rule 1203(D)(1)(g)(vii); Rule 1203(F)(1)]

3. Sulfur content of the diesel / distillate fuel used for combustion in Coolwater Generating Station Utility Boilers [excluding Auxiliary Boiler] shall not exceed 0.50 % sulfur by weight. The sulfur content of diesel/distillate fuel shall be determined by use of ASTM method D 2622-82, or (ASTM method D 2880-71, or equivalent).  
*[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements] (for Periodic Monitoring Requirements, see: Part II, section A, condition 22; Part III, section A, condition 4; Part III, section B, conditions 1 and 4; Part III, section C, conditions 11 and 22; Part V, section C, condition 4; Part V, section D, condition 3; Part V, section E, condition 1; Part V, section I, conditions 2 and 3)*  
[Rule 431 - *Sulfur Content of Fuels*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 - 43 FR 40011; Current Rule Version = 07/25/77]  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
  4. *Pursuant to EPA Objection, Owner/Operator of Coolwater Generating Station will be required to demonstrate that boilers and turbines combusting diesel/distillate fuels complies with the applicable emission limits specified in MDAQMD Rules; 406, 407, 409, 475, and 1158 before being allowed to burn these liquid fuels on a routine basis. Any proposed exhaust stack source testing must receive advance written approval by the MDAQMD and be witnessed by the MDAQMD in order to be considered valid for compliance demonstration purposes.*  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]  
[1203 (D)(1)(f)(ii)]
- E. SPECIFIC COMPLIANCE CONDITIONS FOR 49 MM BTU/HR AUXILIARY BOILER, MDAQMD PERMIT # B001892:
1. Sulfur content of diesel fuel used for combustion in the Auxiliary Boiler shall not exceed 0.20 % sulfur by weight. The sulfur content of diesel/distillate fuel shall be determined by use of ASTM method D 2622-82, or (ASTM method D 2880-71, or equivalent).  
*[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements] ( for Periodic Monitoring Requirements, see Part III, section B, conditions 1 through 7 )*  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

2. Auxiliary Boiler is limited to the use of 1,154,000 gallons of No. 2 diesel fuel per year.  
*[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements] ( for Periodic Monitoring Requirements, see Part III, section B, conditions 1 through 7 )*  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
3. Auxiliary Boiler shall comply with Rule 1158 “Aggregated Annual NO<sub>x</sub> Emissions Cap” for entire facility listed in Part II, Conditions B.2 and C.2 of this Federal Operating Permit. A monthly summary of the accumulative aggregated annual pounds of NO<sub>x</sub> emissions for the facility demonstrating compliance with this requirement shall be included as a part of the Annual Compliance Certification by the “Responsible Official” for Coolwater Generating Station.  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]  
[**SIP Pending:** Rule 1158 - *Electric Utility Operations* as adopted 08/25/97 and submitted 03/10/98]  
[40 CFR 70.6(c)(5)(i); Rule 1203(D)(1)(g)(vii); Rule 1203(F)(1)]
4. Stack and point source visible emissions from this facility, of any air contaminant (including smoke) into the atmosphere, shall not equal or exceed Ringelmann No. 1 for a period or periods aggregating more than three minutes in any one hour:
  - a. While any unit [including turbines] is fired on Public Utilities Commission grade natural gas, Periodic Monitoring is not required to validate compliance with the Rule 401 Visible Emissions limit. However, the Owner/Operator shall comply with the recordkeeping requirements stipulated elsewhere in this permit regarding the logging of fuel type, amount and suppliers certification information.
  - b. While any unit [excluding turbines] is fired on diesel / distillate fuel Periodic Monitoring, in addition to required recordkeeping, is required to validate compliance with Rule 401 Visible Emissions limit. A visible emissions inspection is required after every one (1) million gallons of fuel is combusted. Fuel consumption is to be counted cumulatively over a 5 year period. If a visible emissions inspection documents opacity, a Method 9 “Visible Emissions Evaluation” shall be completed within 3 working days, or during the next scheduled operating period if the unit ceases firing on diesel / distillate within the 3 working day time frame.
  - c. While any turbine is fired on diesel / distillate fuel Periodic Monitoring, in addition to required recordkeeping, is required to validate compliance with the Rule 401 Visible Emissions limit. A visible emissions inspection is required after every 400 cumulative hours of operation on diesel / distillate fuel. If a visible emissions inspection documents opacity, a Method 9 “Visible Emissions Evaluation” shall be completed within 3 working days, or during the next scheduled operating period if the unit ceases firing on diesel / distillate within the 3 working day time frame. This requirement shall also apply to diesel/distillate fuel firing during training/testing periods.*[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements] (for Periodic Monitoring Requirements, see: Part II, section A, condition 12; Part III, section C, condition 23; Part V, section C, condition 6; Part V, section D, condition 1, Part V, section E, condition 4)*  
[Rule 401 - *Visible Emissions*; Version in SIP = CARB Ex. Order G-73, 40 CFR

52.220(c)(39)(ii)(B) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

5. *Pursuant to EPA Objection, Owner/Operator of Coolwater Generating Station will be required to demonstrate that boilers and turbines combusting diesel/distillate fuels complies with the applicable emission limits specified in MDAQMD Rules; 406, 407, 409, 475, and 1158 before being allowed to burn these liquid fuels on a routine basis. Any proposed exhaust stack source testing must receive advance written approval by the MDAQMD and be witnessed by the MDAQMD in order to be considered valid for compliance demonstration purposes.*

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

[1203 (D)(1)(f)(ii)]

F. SPECIFIC COMPLIANCE CONDITIONS FOR DIESEL IC ENGINE DRIVEN EMERGENCY FIRE PUMP, MDAQMD PERMIT # E004063:

1. Owner/Operator shall log all starting and stopping times of all uses of this unit, to the nearest minute; the date; and the delivery date of fuel. *See Conditions, V.F.1, V.F.2, V.F.4, V.F.5, V.F.6, and V.F.7. [ 40 CFR 70.6 (a)(3)(B) ]*  
*[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]*  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
2. Owner/Operator is limited to using diesel fuel whose sulfur concentration does not exceed 0.05% on a weight per weight basis. The sulfur content of diesel/distillate fuel shall be determined by use of ASTM method D 2622-82, or (ASTM method D 2880-71, or equivalent). *See Conditions, V.F.1, V.F.2, V.F.4, V.F.5, V.F.6, and V.F.7.*  
*[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements] (for Periodic Monitoring Requirements, see: Part II, section A, condition 22; Part III, section A, condition 4; Part III, section B, conditions 1 and 4; Part III, section C, conditions 11 and 22; Part V, section C, condition 4; Part V, section D, condition 3; Part V, section E, condition 1; Part V, section I, conditions 2 and 3)*  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
3. Owner/Operator shall not use any fuel in this unit other than diesel without the prior written permission of the MDAQMD.  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
4. Owner/Operator may use the supplier's sulfur analytical data, but at the discretion of the

MDAQMD, a sample of the fuel shall be taken and submitted for analysis by an independent laboratory/testing firm. The sulfur content of diesel/distillate fuel shall be determined by use of ASTM method D 2622-82, or (ASTM method D 2880-71, or equivalent). The sulfur content shall be logged. *See Conditions, V.F.1, V.F.2, V.F.4, V.F.5, V.F.6, and V.F.7.*

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] (for *Periodic Monitoring Requirements*, see: *Part II, section A, condition 22; Part III, section A, condition 4; Part III, section B, conditions 1 and 4; Part III, section C, conditions 11 and 22; Part V, section C, condition 4; Part V, section D, condition 3; Part V, section E, condition 1; Part V, section I, conditions 2 and 3*)

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

5. This unit shall only be used for power during use in fire emergencies. The unit may be operated weekly as part of a testing program which does not exceed 4 hours per month. *See Conditions, V.F.1, V.F.2, V.F.4, V.F.5, V.F.6, and V.F.7.*

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

6. The number of hours used for testing and actual fire emergencies shall be logged and kept on site as required for all records in condition V.B.7, below. This unit shall not be operated more than 100 hours yearly without prior written approval of the MDAQMD. *See Conditions, V.F.1, V.F.2, V.F.4, V.F.5, V.F.6, and V.F.7.*

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

7. Owner/Operator shall maintain all operating logs and records, current and on-site, for a minimum of 5 years from the date the records were created to substantiate compliance with all conditions of this Federal Operating Permit and shall be provided to District, state or federal personal upon request. These Records shall include a copy of the fuel suppliers certification for each diesel fuel delivery substantiating compliance with the 0.05% by weight fuel sulfur limit. *See Conditions, V.F.1, V.F.2, V.F.4, V.F.5, V.F.6, and V.F.7.*

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)].

[Rule 1203(D)(1)(d)(ii)]

8. Visible emissions from all exhaust stacks and emission points shall comply with Rule 401.

[Rule 401 - *Visible Emissions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]

- G. SPECIFIC COMPLIANCE CONDITIONS FOR PAINT SPRAY BOOTH, MDAQMD PERMIT # S000736:

1. The total amount of photochemically reactive solvents in paints, diluents, thinners, reducers, cleaners, etc. shall not exceed 39.6 lb/day.  
[Rule 442 - *Usage of Solvents*; Version in SIP = Current, 40 CFR 52.220(c)(51)(xii)(B) - 06/09/82 47 FR 25013]
2. A daily record of usage for both photochemically and non-photochemically reactive solvents, diluents, thinners, reducers, cleaners, etc., which includes quantity and description, shall be maintained on-site. Note: The daily log information provides a basis for the Toxic Emission Inventory required by AB2588.  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
3. Discharge filters shall be installed and maintained in a tightly mounted and dimensionally stable condition free of excessive deposits or interference with air flow passages.  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
4. This equipment shall not be operated unless the system is in operation in accordance with the manufacturer's specifications, or if manufactured by the applicant, approved by the APCO/District.  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
5. Records shall be kept for a minimum of 5 years from the date the records were created to substantiate compliance with all conditions of this Federal Operating Permit.  
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)].  
[Rule 1203(D)(1)(d)(ii) ]

H. SPECIFIC COMPLIANCE CONDITIONS FOR GASOLINE DISPENSING OPERATION, MDAQMD PERMIT # N001424:

1. Owner/Operator shall maintain a log of all inspections, repairs, and maintenance on equipment subject to Rule 461 listed in Part II, Conditions G.1 through G.10. In addition, Owner/Operator shall maintain a leak inspection log containing, at a minimum, the following: inspector's name, location and description of component type where any leak is found; date of leak detection, emission level (ppm) if applicable, and date leak is repaired. Such logs or records shall be maintained at the facility for a minimum of 5 years from the date the records were created and shall be made available to District, state or federal personnel upon request.  
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)].  
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]

[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]

[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] ( for *Periodic Monitoring Requirements*; see *Part III, section E, conditions 1, 2, 3, 4; Part V, section H, conditions 1 through 7*)

2. Owner/Operator shall maintain a daily log of product throughput for gasoline dispensing facility.  
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] ( for *Periodic Monitoring Requirements*; see *Part III, section E, conditions 1, 2, 3, 4; Part V, section H, conditions 1 through 7*)
3. Any violation determined by any one of the following listed *Reference Method Tests* shall constitute a violation of the Part II, Conditions G.1 through G.10:
  - (a) Vapor recovery system and gasoline dispensing equipment shall be maintained leak-free as verified performing annual EPA Method 21 tests and monthly visual inspections. Vapor Tightness (Fugitive Vapor Leaks) for all equipment described in Part II, Condition G.2.(c) shall be determined by EPA Method 21 - *Determination of Volatile Organic Compounds Leaks*.
  - (b) Vapor Recovery System Efficiency for Delivery Vessels shall be determined by the EPA Method entitled, *Control of Organic Compound Leaks from Gasoline Tank Trucks and Vapor Collection Systems* (method specified in the CTG EPA-450/2-78-051), or the CARB Method entitled, *Certification and Test Procedures for Vapor Recovery Systems of Gasoline Delivery Tanks*.
  - (c) Reid Vapor Pressure shall be determined in accordance with ASTM Method D 323-82.
  - (d) Vapor Recovery System Efficiency for Bulk Plants shall be determined by CARB Method 202, "*Certification of Vapor Recovery Systems - Bulk Plants*".
  - (e) Vapor Recovery System Efficiency for Terminals shall be determined by CARB Method 203, "*Certification of Vapor Recovery Systems - Gasoline Terminals*".
  - (f) Vapor Recovery System Efficiency for Service Stations shall be determined by the CARB Methods in "*Test Procedures for Determining the Efficiency of Gasoline Vapor Recovery Systems at Service Stations*".  
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] ( for *Periodic Monitoring Requirements*; see *Part III, section E, conditions 1, 2, 3, 4; Part V, section H, conditions 1 through 7*)
4. Compliance with the requirement of the Phase II system to be 95 % effective for the recovery of displaced vapors is considered to be demonstrated by performing annual EPA Method 21 tests and monthly visual inspections, including maintaining equipment as specified in the applicable ARB Executive Order certifying the system and conditions listed in Part II, Conditions G.1 through G.10. A leak is defined as the dripping at a rate of more than three (3) drops per minute of liquid



containing VOCs or a reading as methane in excess of 10,000 ppm as determined using EPA Method 21.

[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] ( *for Periodic Monitoring Requirements; see Part III, section E, conditions 1, 2, 3, 4; Part V, section H, conditions 1 through 7*)

5. Owner/Operator shall conspicuously post in the gasoline dispensing area the operating instructions, the District's toll-free telephone number for complaints and a District specified warning sign.  
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] ( *for Periodic Monitoring Requirements; see Part III, section E, conditions 1, 2, 3, 4; Part V, section H, conditions 1 through 7*)
6. Owner/Operator shall post the following toll-free telephone number: 1-800-635-4617.  
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] ( *for Periodic Monitoring Requirements; see Part III, section E, conditions 1, 2, 3, 4; Part V, section H, conditions 1 through 7*)
7. Any modifications or changes to the piping or control fittings of the vapor recovery system requires prior approval from the MDAQMD.  
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] ( *for Periodic Monitoring Requirements; see Part III, section E, conditions 1, 2, 3, 4; Part V, section H, conditions 1 through 7*)
- I. SPECIFIC COMPLIANCE CONDITIONS FOR FIXED ROOF STORAGE TANK # 1, MDAQMD PERMIT # T001100:
  1. Only diesel / distillate fuel shall be stored in this tank.  
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]  
[40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*] ( *for Periodic Monitoring Requirements; see Part III, section F, conditions 1 through 11; Part V, section I, conditions 1, 2, 3*)
  2. Sulfur content of the diesel / distillate fuel used for combustion in Coolwater Generating Station

Utility Boilers [excluding Auxiliary Boiler] and Turbines shall not exceed 0.50 % sulfur by weight. The sulfur content of diesel/distillate fuel shall be determined by use of ASTM method D 2622-82, or (ASTM method D 2880-71, or equivalent).

*[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements] (for Periodic Monitoring Requirements, see: Part II, section A, condition 22; Part III, section A, condition 4; Part III, section B, conditions 1 and 4; Part III, section C, conditions 11 and 22; Part V, section C, condition 4; Part V, section D, condition 3; Part V, section E, condition 1; Part V, section I, conditions 2 and 3)*

*[Rule 431 - Sulfur Content of Fuels; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 - 43 FR 40011; Current Rule Version = 07/25/77]*

*[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements] (for Periodic Monitoring Requirements; see Part III, section F, conditions 1 through 11; Part V, section I, conditions 1, 2, 3)*

3. An operator's log shall be kept and maintained which records, at a minimum; the date and amount of diesel / distillate fuel received and the sulfur content of the fuel. The sulfur content of diesel/distillate fuel shall be determined by use of ASTM method D 2622-82, or (ASTM method D 2880-71, or equivalent). The log shall be kept on-site for a minimum of 5 years from the date the records were created to substantiate compliance with this condition of the Federal Operating Permit. Any records, data and logs shall be made available to District, state or federal personnel upon request.

*[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements] (for Periodic Monitoring Requirements, see: Part II, section A, condition 22; Part III, section A, condition 4; Part III, section B, conditions 1 and 4; Part III, section C, conditions 11 and 22; Part V, section C, condition 4; Part V, section D, condition 3; Part V, section E, condition 1; Part V, section I, conditions 2 and 3)*

*[Rule 463 - Storage of Organic Liquid; Version in SIP = Current, CFR citing unknown]*

*[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]*

*[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements] (for Periodic Monitoring Requirements; see Part III, section F, conditions 1 through 11; Part V, section I, conditions 1, 2, 3)*

J. SPECIFIC COMPLIANCE CONDITIONS FOR ENTIRE COOLWATER GENERATING STATION:

1. Owner/Operator shall keep records for a minimum of 5 years from the date the records were created to substantiate compliance with all conditions of this Federal Operating Permit. Any records, data or logs shall be supplied to District, state or federal personnel upon request.  
*[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)].*
2. Owner/Operator shall comply with all applicable provisions of 40 CFR 72, Permits Regulation (Title IV) and the submitted Title IV Permit Application as indicated in Part VIII of this combined, *Title V Federal Operating Permit / Title IV Acid Rain Permit.*  
*[40 CFR 72; Rule 1210 ]*

3. Owner/Operator shall insure that all applicable subject processes comply with the provisions of 40 CFR 61, *National Emission Standards for Hazardous Air Pollutants*, subpart A, *General Provisions*, and subpart M, *Asbestos*.  
[40 CFR 61, subparts A and M ]
4. Owner/Operator shall notify APCO/District at least 10 working days before any applicable asbestos stripping or removal work is to be performed as required by section 61.145.b of 40 CFR 61 subpart M, *National Emission Standard for Asbestos*.  
[40 CFR 61.145.b ]
5. Owner/Operator shall notify the APCO/District, on an **annual** basis, postmarked by December 17 of the calendar year, of the predicted asbestos renovations for the following year as required by section 61.145.b of 40 CFR 61, subpart M [see cite for threshold triggering and applicability].  
[40 CFR 61.145.b ]
6. Owner/Operator shall submit, on a semi-annual basis, a *Monitoring Report* to the APCO/District, with a copy to the EPA Region IX Administrator. Each *Monitoring Report* shall be submitted no later than January 31 and July 31 of any given year, shall be certified to be true, accurate, and complete by a responsible official, and shall include the following information and/or data:
  - (a) Summary of deviations from any federally-enforceable requirement in this permit.
  - (b) Summary of all emissions monitoring and analysis methods required by any Applicable Requirement / federally - enforceable requirement.
  - (c) Summary of all periodic monitoring, testing or record keeping (including test methods sufficient to yield reliable data) to determine compliance with any Applicable Requirement / federally - enforceable requirement that does not directly require such monitoring.
  - (d) Summary of necessary requirements concerning use and maintenance of equipment including the installation and maintenance of monitoring equipment.[Rule 1203 (D)(1)(e)(i); and 1203 (D)(1)(c)(i - iii)]
7. Owner/Operator shall promptly report all deviations from federal operating permit requirements including those attributable to breakdown conditions. Prompt reporting shall be determined for compliance with District Rule 430.  
[Rule 1203 (D)(1)(e)(ii)]  
[SIP Pending: Rule 430 - *Breakdown Provisions* as amended 12/21/94 and submitted 02/24/95]
8. On an **annual** basis, of any given year, Owner/Operator shall submit a *Compliance Certification Report*, within 30 days of the anniversary of the date of the issuance or renewal of the Federal Operating Permit, to the APCO/District pursuant to District Rule 1203. This report shall identify each Applicable Requirement / federally-enforceable requirement in this permit, the compliance status of each subject process unit, whether the compliance was continuous or intermittent since the last certification, and the method(s) used to determine or monitor compliance. Each report shall be certified to be true, accurate, and complete by a responsible official and a copy of this annual

report shall also be contemporaneously submitted to the EPA Region IX Administrator.  
[40 CFR 72.90.a and Rule 1203 (D)(1)(g)(vii - x)]

9. *Pursuant to EPA Objection, Owner/Operator of Coolwater Generating Station will be required to demonstrate that boilers and turbines combusting diesel/distillate fuels complies with the applicable emission limits specified in MDAQMD Rules; 406, 407, 409, 475, and 1158 before being allowed to burn these liquid fuels on a routine basis. Any proposed exhaust stack source testing must receive advance written approval by the MDAQMD and be witnessed by the MDAQMD in order to be considered valid for compliance demonstration purposes.*  
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]  
[1203 (D)(1)(f)(ii)]

## PART VI COMPLIANCE PLAN

1. Coolwater Generating Station “Owner/Operator” shall remain in compliance with all Applicable Requirements / federally enforceable requirements by complying with all compliance, monitoring, record-keeping, reporting, testing, and other operational conditions contained in this Federal Operating Permit. Any noncompliance constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; the termination, revocation and re-issuance, or modification of this Federal Operating Permit; and/or grounds for denial of a renewal application.  
[1203 (D)(1)(f)(ii)]
2. Coolwater Generating Station “Owner/Operator” shall comply in a timely manner with all applicable requirements / federally - enforceable requirements that become effective during the term of this permit.  
[Rule 1201 (I)(2)]
3. “Owner/Operator” shall submit *Compliance Certifications* to the Mojave Desert Air Quality Management District and to the Administrator - USEPA Region 9 within thirty (30) days of the permit anniversary date.  
[Rule 1203 (F)(1)]
4. Coolwater Generating Station “Owner/Operator” shall fulfill the compliance conditions and requirements contained in the May 22, 1998, June 19, 1998, and November 16, 1998 original/update/modification submittals for both the Title IV Permit Application (originally submitted 12-1-95 and dated 11-22-95) and the Title V Permit Application (originally submitted 12-19-96 and dated 12-17-96) submitted by Southern California Edison and updated by Coolwater Generating Station. These Compliance Conditions and Requirements are hereby made part of this Federal Operating Permit and Compliance Plan by reference.  
[Rule 1203 (D)(1)(g)(v)]
5. If any Coolwater Generating Station facility unit(s) should be determined not to be in compliance with any federally-enforceable requirement during the 5 year permit term, then the Owner/Operator shall obtain a *Schedule of Compliance* approved by the District Hearing Board pursuant to the requirements of MDAQMD Regulation 5 (Rules 501 - 518). In addition, the Owner/Operator shall submit a *Progress Report* on the implementation of the *Schedule of Compliance*. The *Schedule of Compliance* shall contain the information outlined in 5(b), below. The *Progress Report* shall contain the information outlined in 5(c), below. The *Schedule of Compliance* shall become a part of this Federal Operating Permit by administrative incorporation. The *Progress Report* and *Schedule of Compliance* shall comply with Rule 1201(I)(3)(iii) and shall include:
  - (a) A narrative description of how the facility will achieve compliance with such requirements; and
  - (b) A *Schedule of Compliance* which contains a list of remedial measures to be taken for the facility to come into compliance with such requirements, an enforceable sequence of

actions, with milestones, leading to compliance with such requirements and provisions for the submission of *Progress Reports* at least every six (6) months. The *Schedule of Compliance* shall include any judicial order, administrative order, and/or increments of progress or any other schedule as issued by any appropriate judicial or administrative body or by the District Hearing Board pursuant to the provisions of Health & Safety Code §42350 et seq.; and

- (c) *Progress Reports* submitted under the provisions of a *Schedule of Compliance* shall include: Dates for achieving the activities, milestone, or compliance required in the schedule of compliance; and dates when such activities, milestones or compliance were achieved; and an explanation of why any dates in the schedule of compliance were not or will not be met; and any preventive or corrective measures adopted due to the failure to meet dates in the schedule of compliance.

[Rule 1201 (I)(3)(iii); Rule 1203 (D)(1)(e)(ii); Rule 1203 (D)(1)(g)(v)]

[SIP Pending: Rule 430 - *Breakdown Provisions* as amended 12/21/94 and submitted 02/24/95]

6. Owner/Operator shall comply with any additional certification requirements as specified in 42 U.S.C §7414(a)(3), Recordkeeping, Inspections, Monitoring and Entry (Federal Clean Air Act §114(a)(3)) and 42 U.S.C. §7661c(b), Permit Requirements and Conditions (Federal Clean Air Act §503(b)), or in regulations promulgated thereunder.

[Rule 1203 (D)(1)(g)(x)]

7. *Pursuant to EPA Objection, Owner/Operator of Coolwater Generating Station will be required to demonstrate that boilers and turbines combusting diesel/distillate fuels complies with the applicable emission limits specified in MDAQMD Rules; 406, 407, 409, 475, and 1158 before being allowed to burn these liquid fuels on a routine basis. Any proposed exhaust stack source testing must receive advance written approval by the MDAQMD and be witnessed by the MDAQMD in order to be considered valid for compliance demonstration purposes.*

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

[1203 (D)(1)(f)(ii)]

## PART VII OPERATIONAL FLEXIBILITY

A. ALTERNATIVE OPERATING SCENARIO(S):

No additional Operational Flexibility provisions allowed without appropriate permit modifications.

PART VIII  
TITLE IV ACID RAIN PERMIT

## Title IV Acid Rain Permit

**Issued to:** RELIANT ENERGY COOLWATER, LLC

**Operated by:** Reliant Energy Coolwater, LLC

**Facility:** Coolwater Generating Station

**ORIS Code:** 0329

**SIC Code:** 4911 - Electric Power Generation

### ACID RAIN PERMIT CONTENTS

- 1) Statement of Basis
- 2) SO<sub>2</sub> allowances allocated under this permit and NO<sub>x</sub> requirements for each affected unit.
- 3) Comments, notes and justifications regarding permit decisions and changes made to the permit application forms during the review process, and any additional requirements or conditions.
- 4) The permit application submitted for this source. The owners and operators of the source must comply with the standard requirements and special provisions set forth in the application.

#### 1) STATEMENT OF BASIS

Statutory and Regulatory Authorities: Pursuant MDAQMD Regulation 12, Program - Federal Operating Permits, a.k.a. Title V (Adopted 7/25/94, Amended 02/22/95, Additional Rules adopted 06/28/95, 7/31/95) and 02/05/96 FR 4217 (Interim Approval), in accordance with Rule 221 - *Federal Operating Permit Requirement*, 40 CFR 52.220(c)(216)(i)(A)(2) - 02/05/96 61 FR 4217 and Rule 1210 - *Acid Rain Provisions of Federal Operating Permits*, and Titles IV and V of the Clean Air Act of 1990, the Mojave Desert Air Quality Management District issues this permit.



**2) SO<sub>2</sub> ALLOWANCE ALLOCATIONS, Tons per year (tpy):**

Boiler Unit # 1	Year	1998	1999	2000	2001	2002
	SO <sub>2</sub> allowances under Tables 2, 3, or 4 of 40 CFR Part 73	NA	NA	10 tpy <sup>*</sup>	10 tpy <sup>*</sup>	10 tpy <sup>*</sup>
	NO <sub>x</sub> Limit	This unit is not subject to the NO <sub>x</sub> requirements from 40 CFR Part 76 as this unit is not capable of firing on coal.				

Boiler Unit # 2	Year	1998	1999	2000	2001	2002
	SO <sub>2</sub> allowances under Tables 2, 3, or 4 of 40 CFR Part 73	NA	NA	6 tpy <sup>*</sup>	6 tpy <sup>*</sup>	6 tpy <sup>*</sup>
	NO <sub>x</sub> Limit	This unit is not subject to the NO <sub>x</sub> requirements from 40 CFR Part 76 as this unit is not capable of firing on coal.				

**Note:** The number of allowances allocated to Phase II affected units by USEPA may change in a 1998 revision to 40 CFR part 73 Tables 2, 3, and 4. In addition, the number of allowances actually held by an affected source in a unit account may differ from the number allocated by USEPA. Neither of the aforementioned conditions necessitate a revision to the unit SO<sub>2</sub> allowance allocations identified in this permit (see 40 CFR 72.84).

**3) SO<sub>2</sub> ALLOWANCE ALLOCATIONS, Tons per year (tpy):**

TURBINE Unit # 31	Year	1998	1999	2000	2001	2002
	SO <sub>2</sub> allowances under Tables 2, 3, or 4 of 40 CFR Part 73	NA	NA	0 tpy <sup>*</sup>	0 tpy <sup>*</sup>	0 tpy <sup>*</sup>
	NO <sub>x</sub> Limit	This unit is not subject to the NO <sub>x</sub> requirements from 40 CFR Part 76 as this unit is not capable of firing on coal.				

TURBINE Unit # 32	Year	1998	1999	2000	2001	2002
	SO <sub>2</sub> allowances under Tables 2, 3, or 4 of 40 CFR Part 73	NA	NA	0 tpy <sup>*</sup>	0 tpy <sup>*</sup>	0 tpy <sup>*</sup>
	NO <sub>x</sub> Limit	This unit is not subject to the NO <sub>x</sub> requirements from 40 CFR Part 76 as this unit is not capable of firing on coal.				

**Note:** The number of allowances allocated to Phase II affected units by USEPA may change in a 1998 revision to 40 CFR part 73 Tables 2, 3, and 4. In addition, the number of allowances actually held by an affected source in a unit account may differ from the number allocated by USEPA. Neither of the aforementioned conditions necessitate a revision to the unit SO<sub>2</sub> allowance allocations identified in this permit (see 40 CFR 72.84).

**4) SO<sub>2</sub> ALLOWANCE ALLOCATIONS, Tons per year (tpy):**

TURBINE Unit # 41	Year	1998	1999	2000	2001	2002
	SO <sub>2</sub> allowances under Tables 2, 3, or 4 of 40 CFR Part 73	NA	NA	0 tpy <sup>*</sup>	0 tpy <sup>*</sup>	0 tpy <sup>*</sup>
	NO <sub>x</sub> Limit	This unit is not subject to the NO <sub>x</sub> requirements from 40 CFR Part 76 as this unit is not capable of firing on coal.				

TURBINE Unit # 42	Year	1998	1999	2000	2001	2002
	SO <sub>2</sub> allowances under Tables 2, 3, or 4 of 40 CFR Part 73	NA	NA	0 tpy <sup>*</sup>	0 tpy <sup>*</sup>	0 tpy <sup>*</sup>
	NO <sub>x</sub> Limit	This unit is not subject to the NO <sub>x</sub> requirements from 40 CFR Part 76 as this unit is not capable of firing on coal.				

**Note:** The number of allowances allocated to Phase II affected units by USEPA may change in a 1998 revision to 40 CFR part 73 Tables 2, 3, and 4. In addition, the number of allowances actually held by an affected source in a unit account may differ from the number allocated by USEPA. Neither of the aforementioned conditions necessitate a revision to the unit SO<sub>2</sub> allowance allocations identified in this permit (see 40 CFR 72.84).

- 5) Comments, Notes and Justifications: Turbine Units #s 31, 32, 41, and 42 were not previously listed by USEPA in the 40 CFR Part 73, Tables 2, 3, and 4, SO<sub>2</sub> allowances. This was an EPA/SCE oversight that will be corrected by USEPA. Once corrected by the USEPA listing of Allowances in 40 CFR Part 73, Tables 2, 3, and 4, the District will Re-Open the Coolwater Generating Station Title IV/V Permit which will then be corrected by the District using the Administrative Permit Amendment Procedure in MDAQMD Regulation XII - Rules.
- 6) Effective January 1, 2000, the Owner/Operator of Coolwater Generating Station, Unit #s 1, 2, 31, 32, 41 and 42 shall hold total SO<sub>2</sub> allowances not less than the total facility annual emissions of sulfur dioxide for the previous calendar year. [40 CFR 72.9(c)]
- 7) Owner / Operator shall comply with *all listed compliance conditions contained within this Title IV Acid Rain Permit and associated Title V Permit, including but not limited to the following:*
  - a. Previously submitted to USEPA by SCE the "Phase II Permit Application" dated November 22, 1995 and subsequently updated and corrected by the original "Alta Power Generation, LLC" submittal [now called Reliant Energy Coolwater, LLC] of the corrected Title IV "Phase II Permit Application" dated and signed November 10, 1998 and received by the MDAQMD on November 16, 1998.
- 8) The *Statement of Basis* listed in this Acid Rain Permit complies with the elements set forth in 40 CFR 72.64.  
[incorporated herein by this reference].
- 9) This Acid Rain Permit complies with the requirements set forth in 40 CFR 72.50. [incorporated herein by this reference].
- 10) Owner/Operator of Coolwater Generating Station shall fulfill the compliance conditions / requirements contained in the; May 22, 1998; June 19, 1998; and November 16, 1998 original/update/modification submittals for both the Title IV permit application (originally submitted 12-1-95 and dated 11-22-95) and the Title V permit application (originally submitted 12-19-96 and dated 12-17-96) submitted by Southern California Edison and updated by Coolwater Generating Station. These compliance conditions / requirements become a part of the Compliance Plan requirements of this combined Title V/ Title IV Federal Operating Permit and are hereby made part of this permit by reference. [Rules 1203, 1210 ]
- 11) Owner/Operator of Coolwater Generating Station shall comply with all applicable provisions of 40 CFR 72, Permits Regulation (Title IV) and their Title IV permit application as indicated in this combined, *Federal Operating Permit / Title IV Acid Rain Permit*, Part VIII. The number of allowances allocated to Phase II affected units by USEPA may change in a 1998 revision to 40 CFR part 73 Tables 2, 3, and 4. In addition, the number of allowances actually held by an affected source in a unit account may differ from the number allocated by USEPA. Neither of the aforementioned conditions necessitate a revision to the unit SO<sub>2</sub> allowance allocations identified in this permit. [40 CFR 72.84][40 CFR 72; Rule 1210 ]

- 12) Emissions from this source/facility shall not exceed any allowances that the source/facility lawfully holds under Title IV of the Act or its regulations. [40 CFR 70.6(a)(4)]
- 13) Where an applicable requirement of the Act is more stringent than an applicable requirement of Title IV regulations, both provisions shall be incorporated into the permit and be enforceable by the Administrator. [40 CFR 70.6(a)(1)(ii)]
- 14) Notwithstanding the testing requirements contained elsewhere in this combined Title IV / V Permit, any credible evidence may be used to establish violations, including but not limited to; reference test methods, engineering calculations, indirect estimates of emissions, CEMS data, and parametric monitoring data. Data need not be required to be collected in a Title V permit in order to be considered credible. [Section 113(a) of the Clean Air Act]

## PART IX CONVENTIONS, ABBREVIATIONS, DEFINITIONS

A. The following referencing conventions are used in this Federal Operating Permit:

40CFR60, Standards of Performance for New Stationary Sources (NSPS)  
40CFR60, Appendix F, Quality Assurance Procedures  
40CFR61, National Emission Standards for Hazardous Air Pollutants (NESHAPS)  
40CFR61, Subpart M, National Emission Standards for Asbestos  
40CFR72, Permits Regulation (Acid Rain Program)  
40CFR73, Sulfur Dioxide Allowance System  
40CFR75, Continuous Emission Monitoring  
40CFR75, Subpart D, Missing Data Substitution Procedures  
40CFR75, Appendix B, Quality Assurance and Quality Control Procedures  
40CFR75, Appendix C, Missing Data Estimating Procedures  
40CFR75, Appendix D, Optional SO<sub>2</sub> Emissions Data Protocol  
40CFR75, Appendix F, Conversion Procedures  
40CFR75, Appendix G, Determination of CO<sub>2</sub> Emissions

B. Other conventions:

1. Unless otherwise noted, a “day” shall be considered a 24 hour period from midnight to midnight (i.e., calendar day).
2. The process unit identifications represent the District permit number designations. These numbers are not sequential. The use of District permit numbers provides continuity between the District and Federal Operating Permit systems.

C. Abbreviations used in this permit are as follows:

CFR	Code of Federal Regulations
APCO	Air Pollution Control Officer
Btu	British thermal units
CCR	California Code of Regulations
CEMS	continuous emissions monitoring system
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
District	Mojave Desert Air Quality Management District (formed July 1993)
MDAQMD	Mojave Desert Air Quality Management District (formed July 1993)
MD	Mojave Desert Air Quality Management District (formed July 1993)
SB	San Bernardino County APCD (1975 to formation of MDAQMD)
gr/dscf	grains per dry standard cubic foot
gpm	gallons per minute
gph	gallons per hour
hp	horse power
H&SC	California Health and Safety Code
lb	pounds

lb / hr	pounds per hour
lb / MM Btu	pounds per million British thermal units
MM Btu	million British thermal units
MM Btu/hr	million British thermal units per hour
MW	Megawatt electrical power
MW(e) net	net Megawatt electrical power
NH <sub>3</sub>	ammonia
NMOC	non-methane organic compounds
NO <sub>x</sub>	oxides of nitrogen
NO <sub>2</sub>	nitrogen dioxide
O <sub>2</sub>	oxygen
pH	pH (acidity measure of solution)
PM <sub>10</sub>	particulate matter less than 10 microns aerodynamic diameter
ppmv	parts per million by volume
psig	pounds per square inch gauge pressure
QA	quality assurance
rpm	revolutions per minute
RVP	Reid vapor pressure
SCAQMD	South Coast Air Quality Management District
scfm	standard cubic feet per minute
scfh	standard cubic feet per hour
SIC	Standard Industrial Classification
SIP	State of California Implementation Plan
SO <sub>x</sub>	oxides of sulfur
SO <sub>2</sub>	sulfur dioxide
tpy	tons per year
TVP	true vapor pressure

D. DEFINITIONS:

1. For the purposes of MDAQMD Rule 1158 - *Electric Utility Operations*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 1158 shall apply.
2. For the purposes of MDAQMD Rule 1113 - *Architectural Coatings*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 1113 shall apply.
3. For the purposes of MDAQMD Rule 1114 - *Wood Products Coating Operations*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 1114 shall apply.
4. For the purposes of MDAQMD Rule 1115 - *Metal Parts and Products Coating Operations*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 1115 shall apply.
5. For the purposes of MDAQMD Rule 461 - *Gasoline Transfer and Dispensing*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 461 shall apply.
6. For the purposes of MDAQMD Rule 462 - *Organic Liquid Loading*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 462 shall apply.

7. For the purposes of MDAQMD Rule 463 - *Storage of Organic Liquids*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 463 shall apply.
8. For the purposes of MDAQMD Rule 432 - *Gasoline Specifications*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 432 shall apply.
9. For the purposes of MDAQMD Rule 431 - *Sulfur Content of Fuels*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 431 shall apply.
10. For the purposes of MDAQMD Rule 430 - *Breakdown Provisions*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 430 shall apply.
11. For the purposes of MDAQMD Rule 475 - *Electric Power Generating Equipment*, and its use in this Federal Operating Permit, the definitions contained in MDAQMD Rule 475 shall apply.